FIG. 1

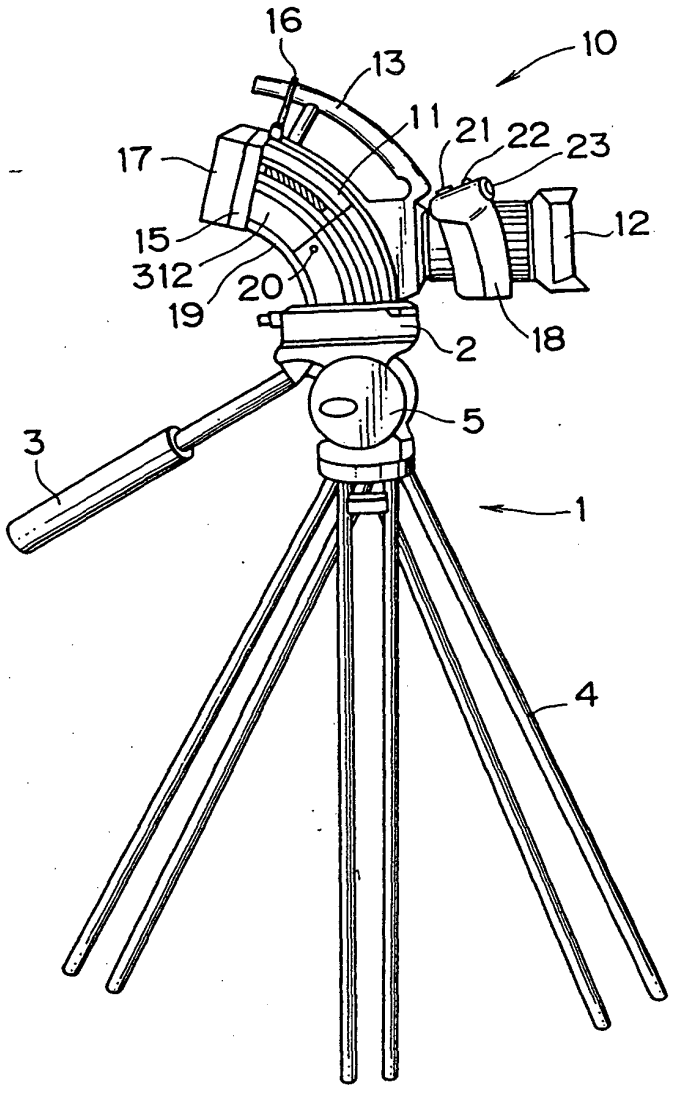


FIG. 2

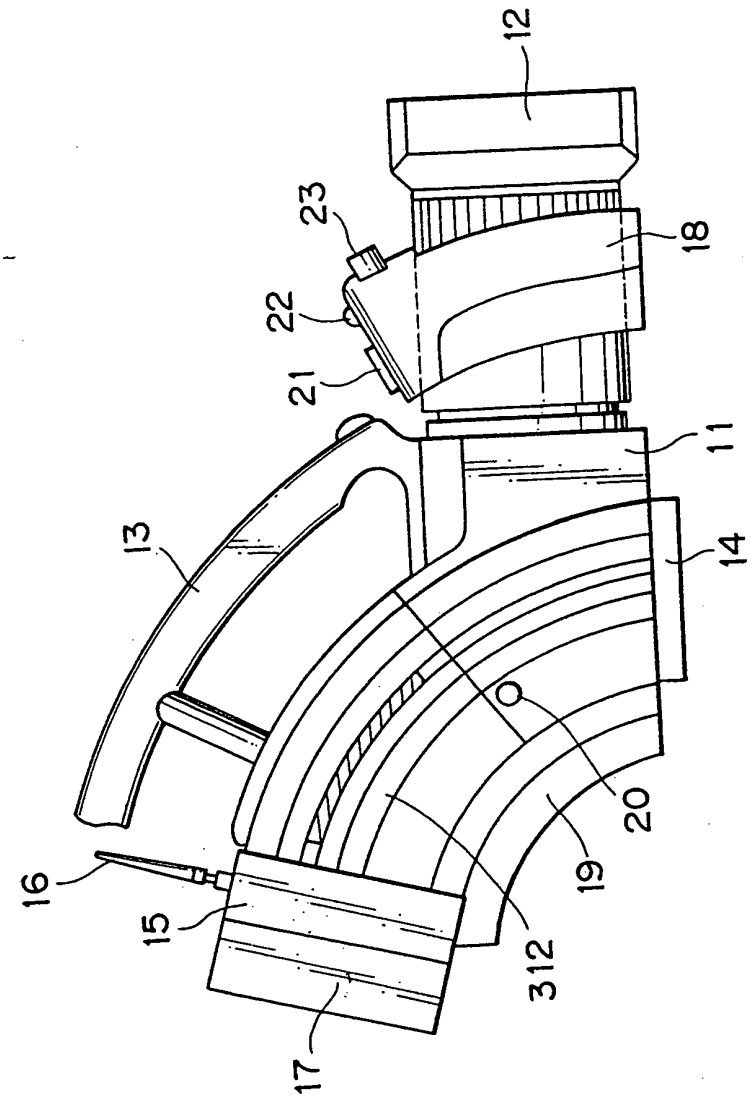


FIG. 3

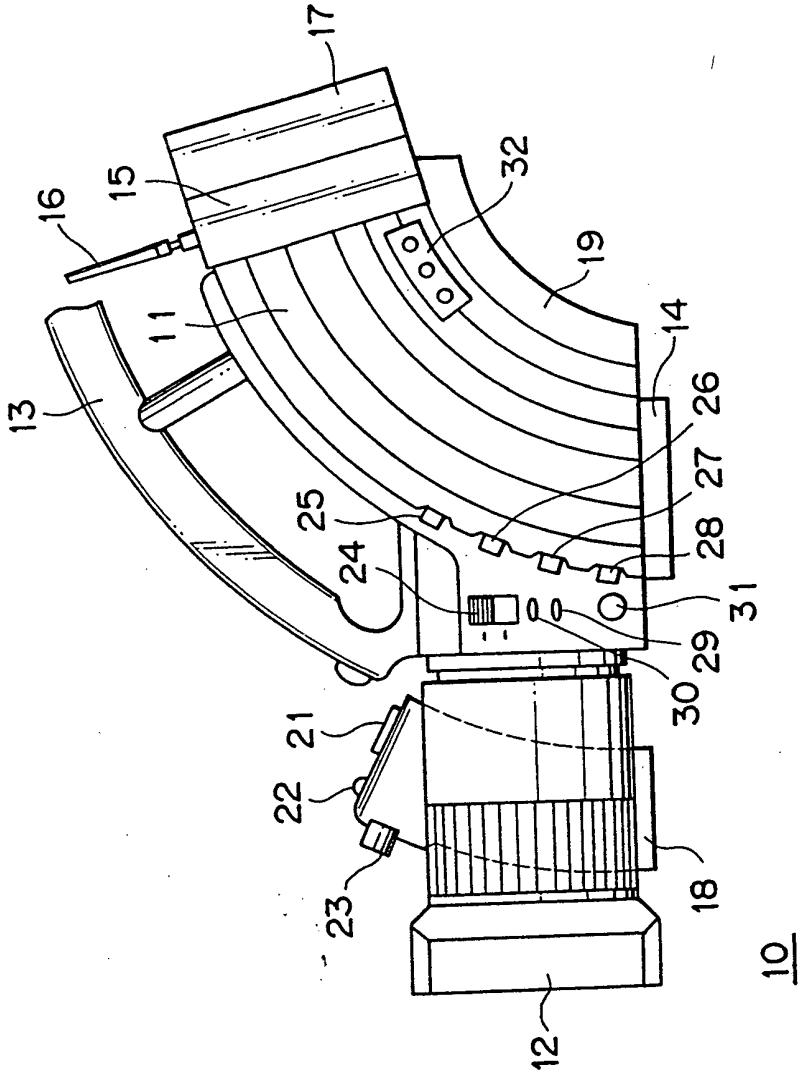


FIG. 4

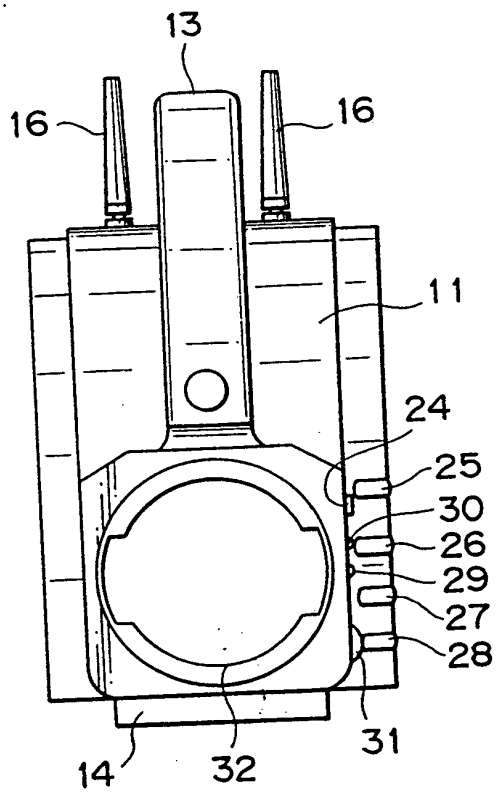


FIG. 5A

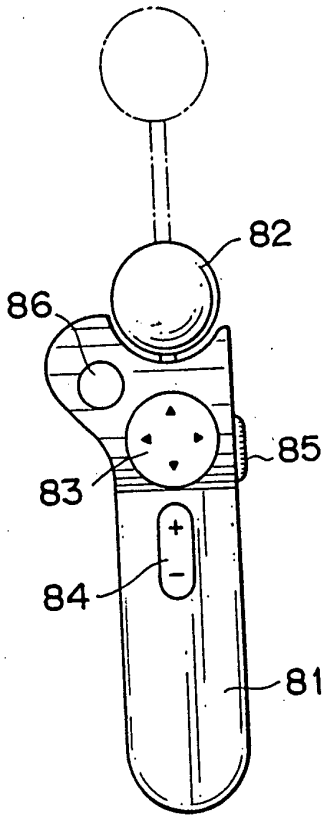


FIG. 5B

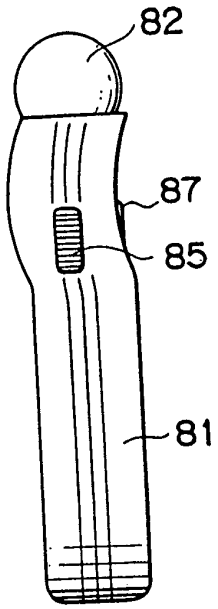


FIG. 5C

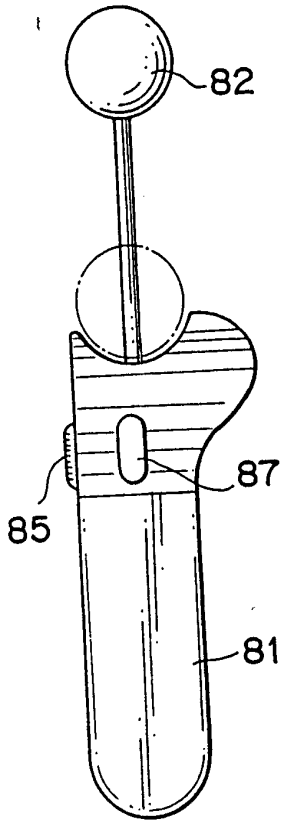


FIG. 6

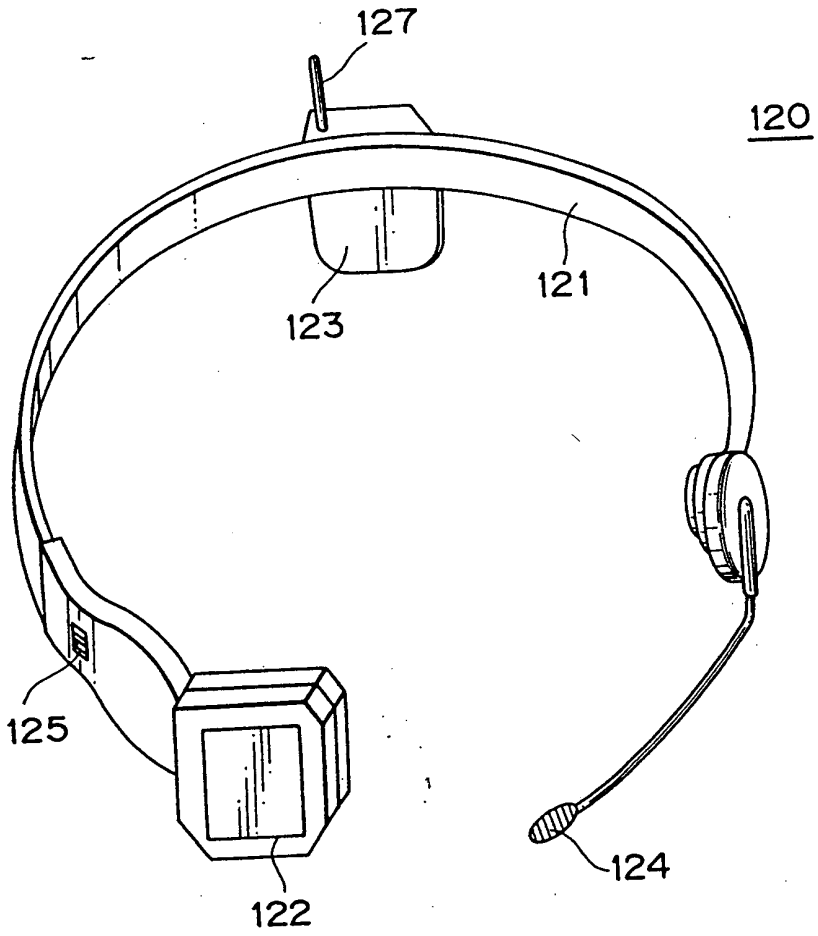


FIG. 7

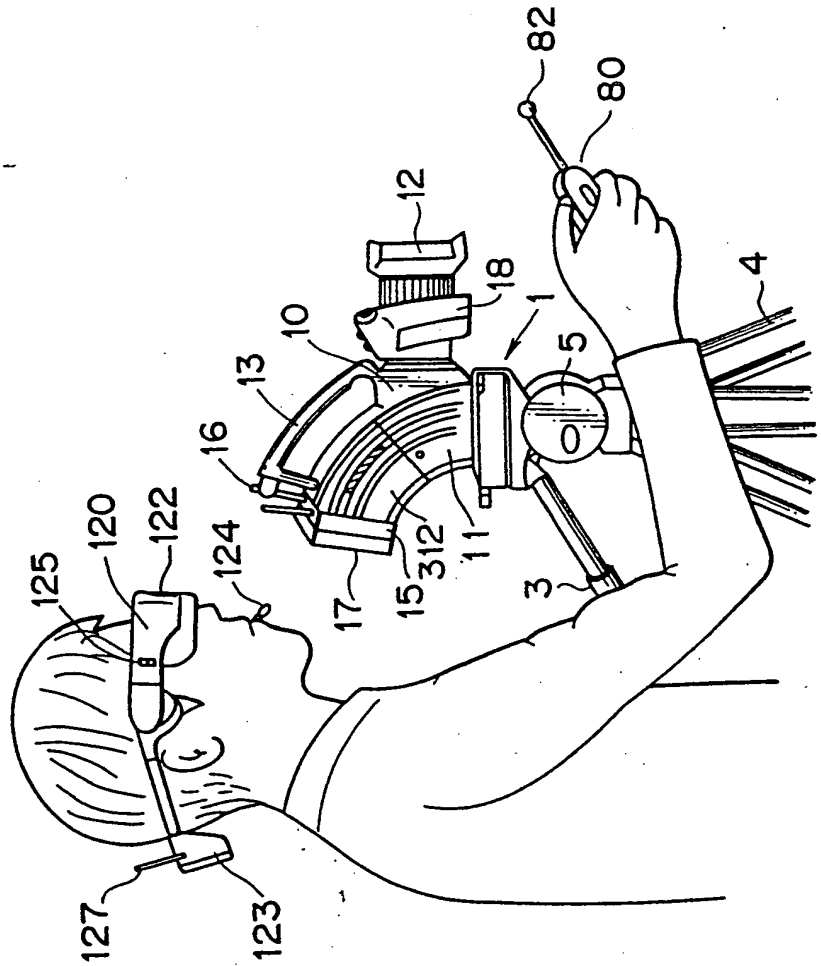


FIG. 8

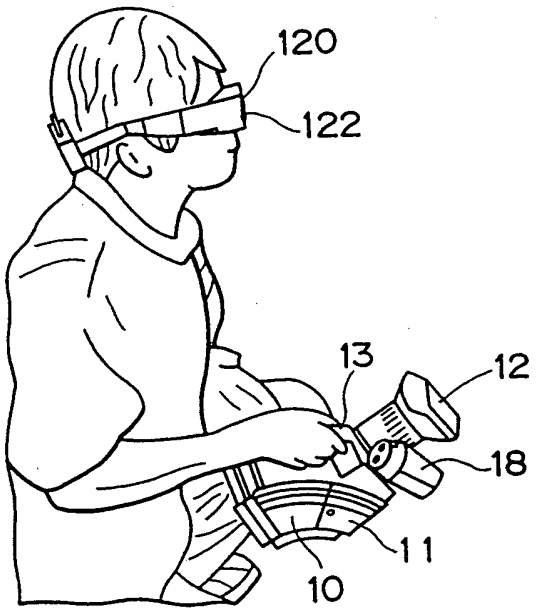


FIG. 9A

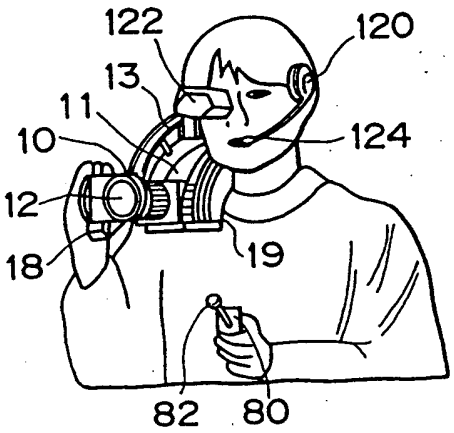


FIG. 9B

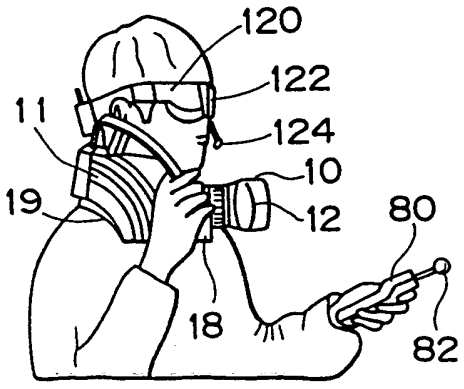


FIG. 10

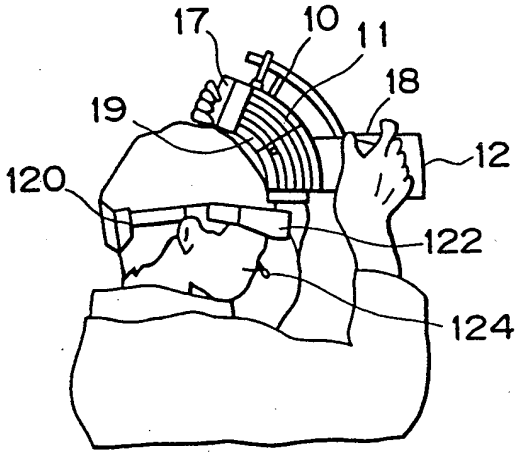


FIG. 11

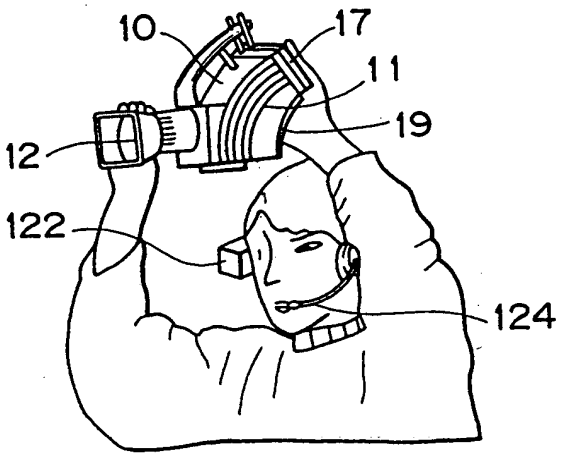


FIG. 12

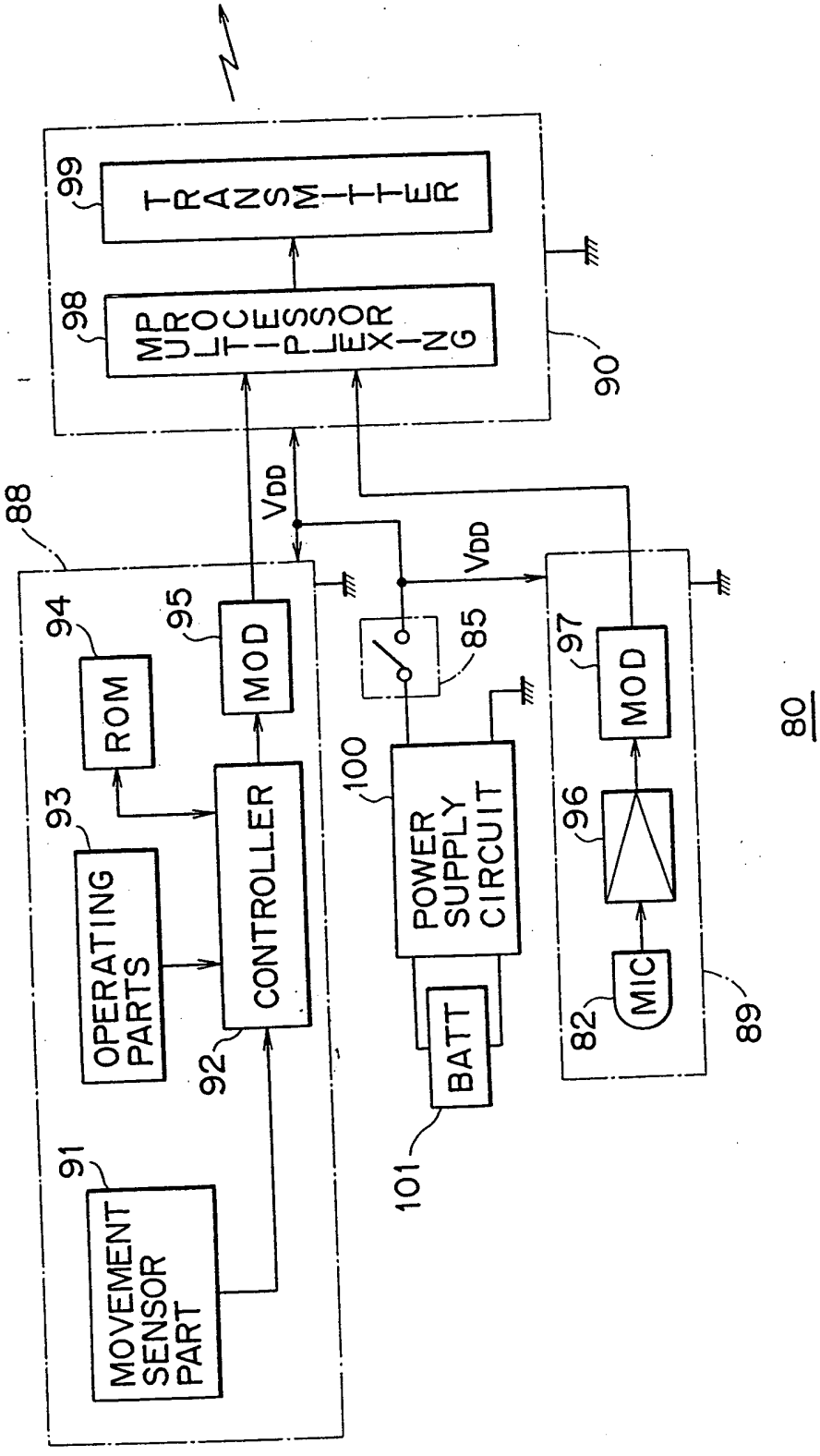

99
TRANSMITTER
98
MP
UROCESSOR
T-PLEX-NG
90
88
VDD
VDD
94
ROM
95
MOD
85
97
MOD
93
OPERATING
PARTS
CONTROLLER
92
100
POWER
SUPPLY
CIRCUIT
96
MIC
82
89
91
MOVEMENT
SENSOR
PART
BATT
101
80

FIG. 13A

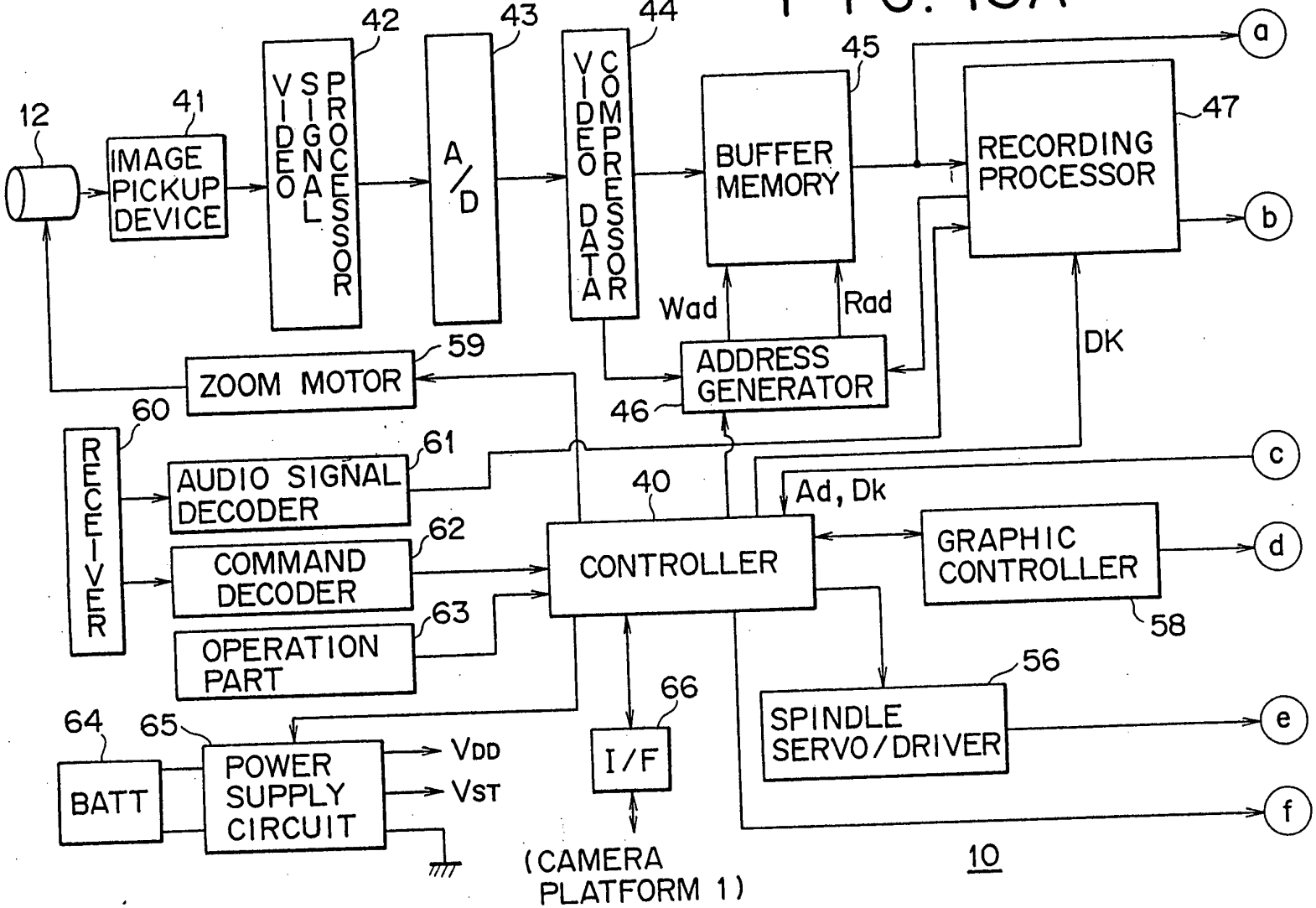

12
41
IMAGE PICKUP DEVICE
42
VIDEO SIGNAL PROCESSOR
43
A/D
44
VIDEO DATA COMPRESSOR
45
BUFFER MEMORY
47
RECORDING PROCESSOR
a
b
Wad
Rad
DK
59
ZOOM MOTOR
ADDRESS GENERATOR
46
60
RECEIVER
61
AUDIO SIGNAL DECODER
62
COMMAND DECODER
63
OPERATION PART
40
CONTROLLER
Ad, Dk
c
GRAPHIC CONTROLLER
d
58
56
SPINDLE SERVO/DRIVER
e
66
I/F
64
BATT
65
POWER SUPPLY CIRCUIT
VDD
VST
f
(CAMERA PLATFORM 1)
10

FIG. 13B

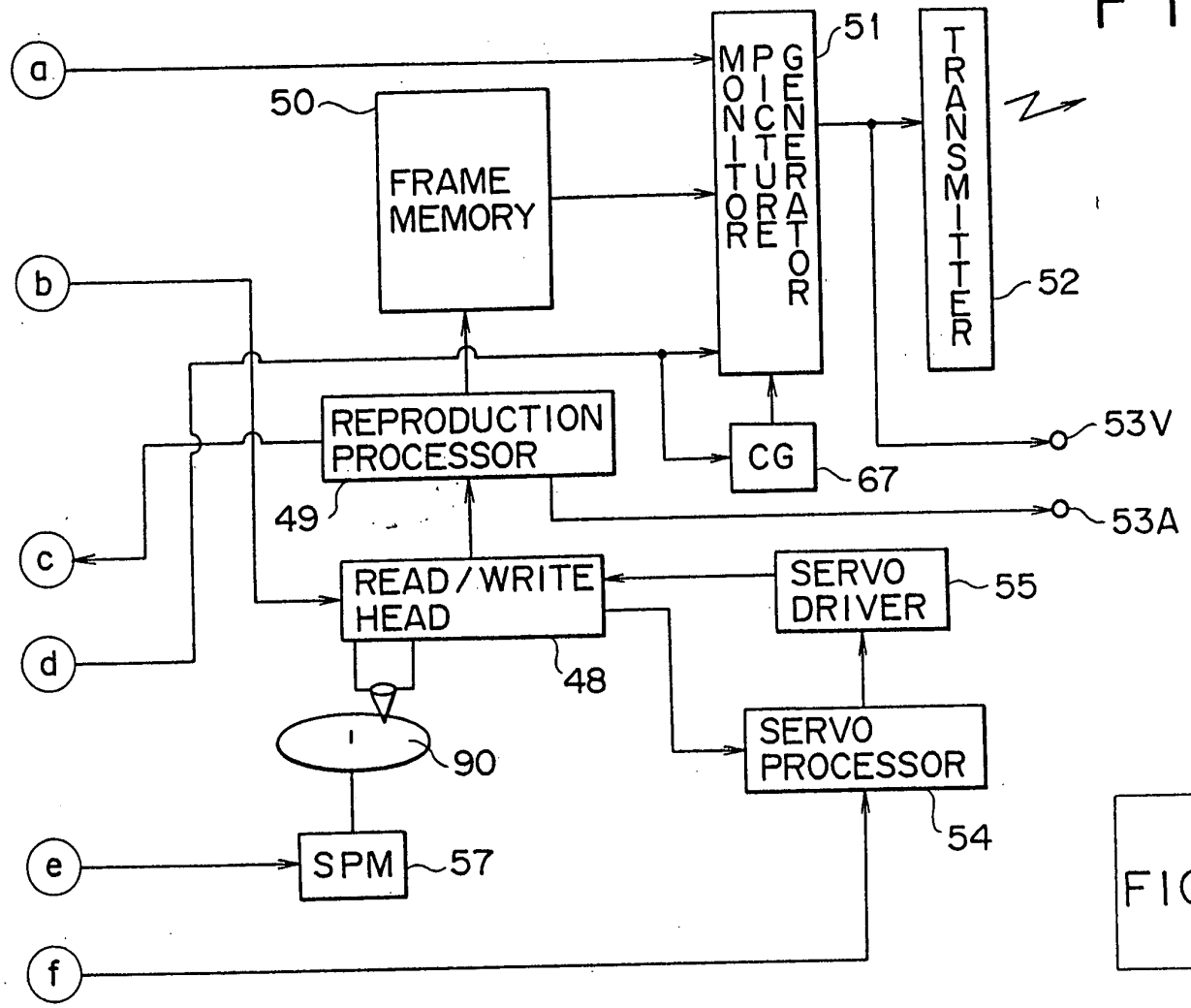


FIG. 13

FIG. 13A	FIG. 13B

FIG. 14

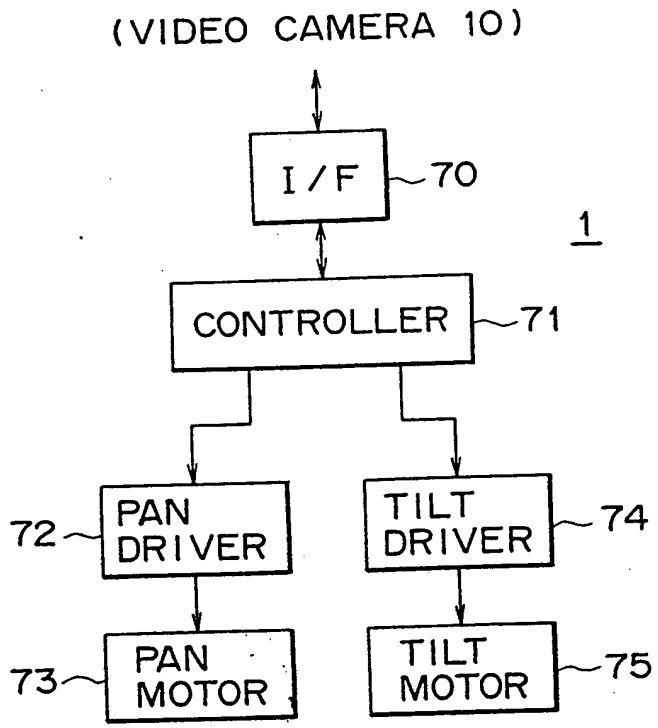

(VIDEO CAMERA 10)
I/F
70
1
CONTROLLER
71
72
PAN DRIVER
TILT DRIVER
74
73
PAN MOTOR
TILT MOTOR
75

FIG. 15

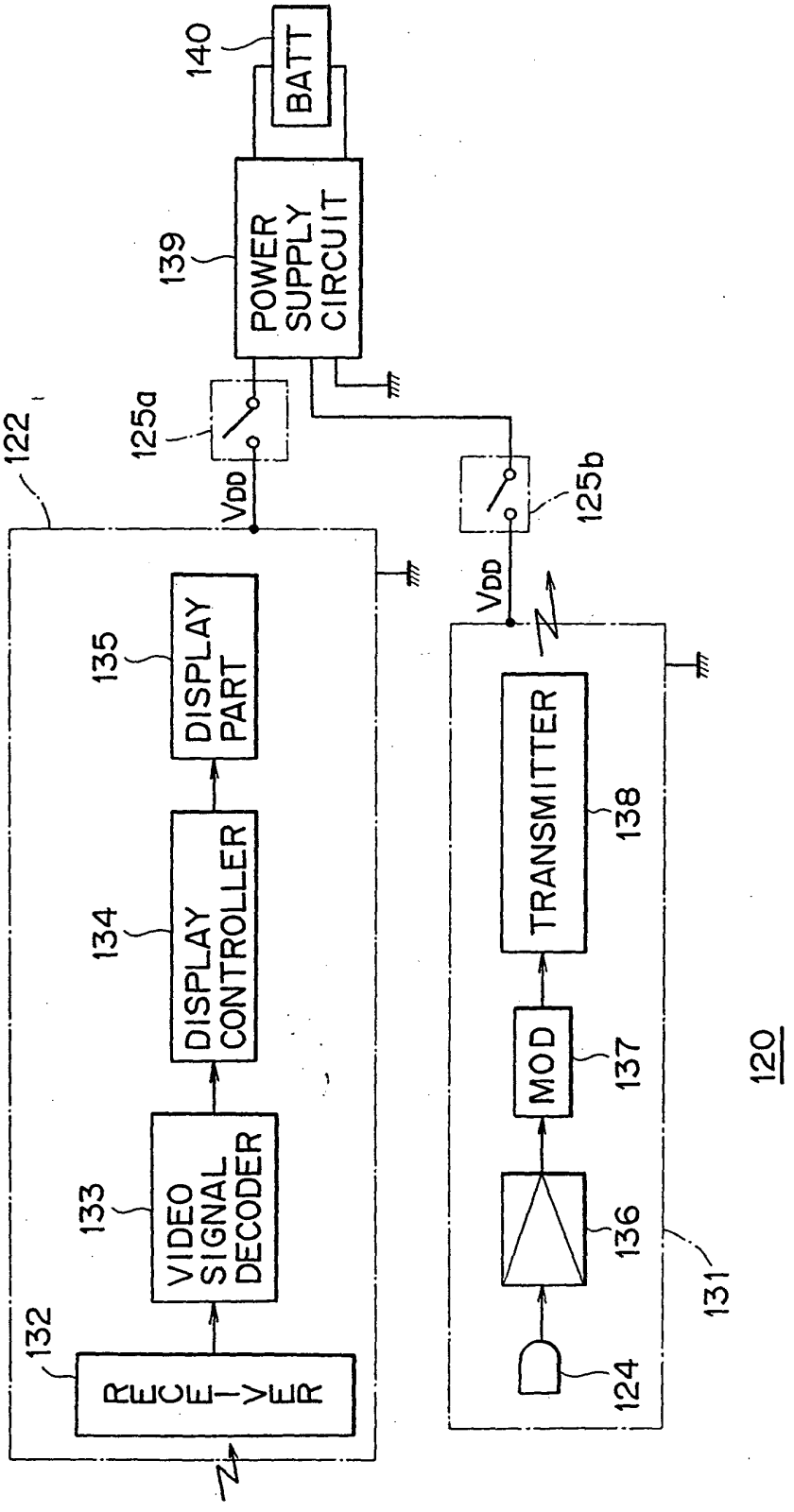

140
BATT
139
POWER SUPPLY CIRCUIT
125a
125b
122
VDD
VDD
135
DISPLAY PART
134
DISPLAY CONTROLLER
133
VIDEO SIGNAL DECODER
132
RECEIVER
TRANSMITTER
138
MOD
137
136
131
124
120

FIG. 16

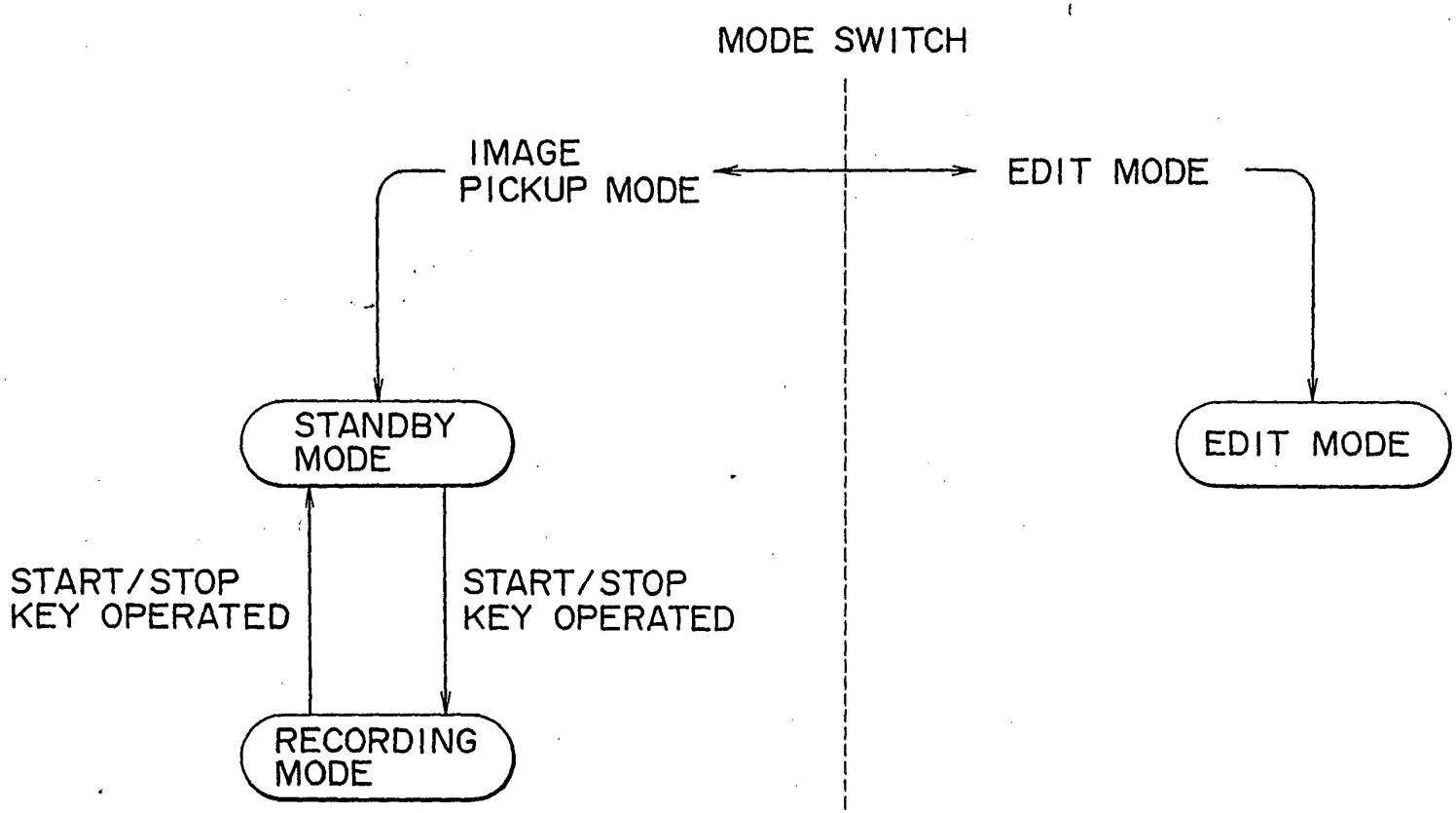

MODE SWITCH
IMAGE PICKUP MODE
EDIT MODE
STANDBY MODE
EDIT MODE
START/STOP KEY OPERATED
START/STOP KEY OPERATED
RECORDING MODE

FIG. 17

	IMAGE PICKUP MODE		EDIT MODE
	STANDBY MODE	RECORDING MODE	
MICROPHONE AUDIO FROM MICROPHONE COMMANDER	×	○	×
MICROPHONE AUDIO FROM HEADSET	×	○	×
ST/ST COMMAND INPUT	○ (START RECORDING)	○ (STOP RECORDING)	×
MARK/CLICK COMMAND INPUT	○ (GUI CLICK)	○ (MARKING)	○ (GUI CLICK)
PAN/TILT COMMAND INPUT	○	○	×
ZOOM COMMAND INPUT	○	○	×
AIR-MOUSE COMMAND INPUT	○	×	○

○ : INPUT ACCEPTED

× : INPUT IGNORED

FIG. 18A

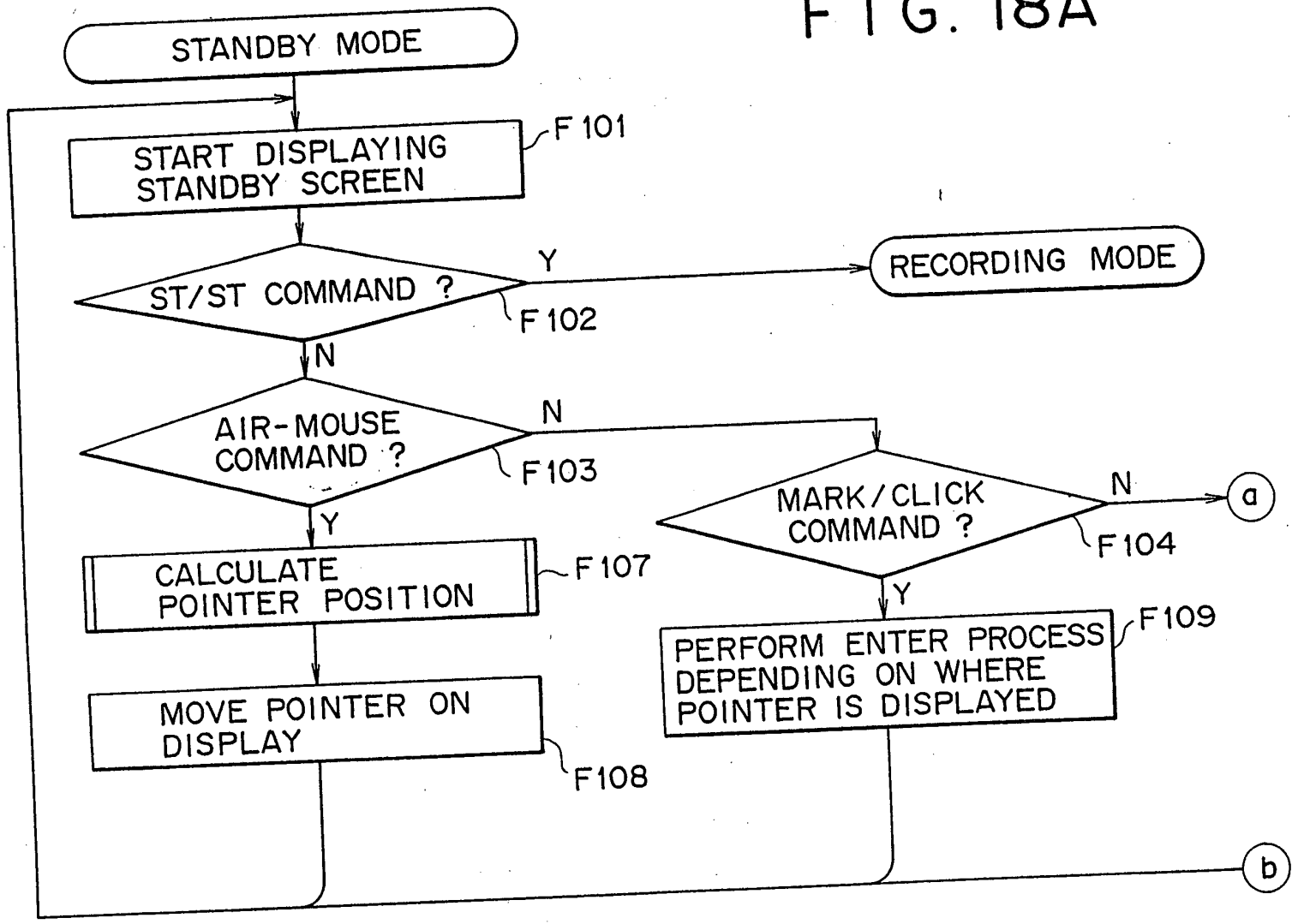

STANDBY MODE
START DISPLAYING STANDBY SCREEN
F101
ST/ST COMMAND ?
Y
RECORDING MODE
F102
N
AIR-MOUSE COMMAND ?
N
F103
Y
MARK/CLICK COMMAND ?
N
a
F104
Y
CALCULATE POINTER POSITION
F107
PERFORM ENTER PROCESS DEPENDING ON WHERE POINTER IS DISPLAYED
F109
MOVE POINTER ON DISPLAY
F108
b

FIG. 18B

FIG. 18

FIG. 18A	FIG. 18B

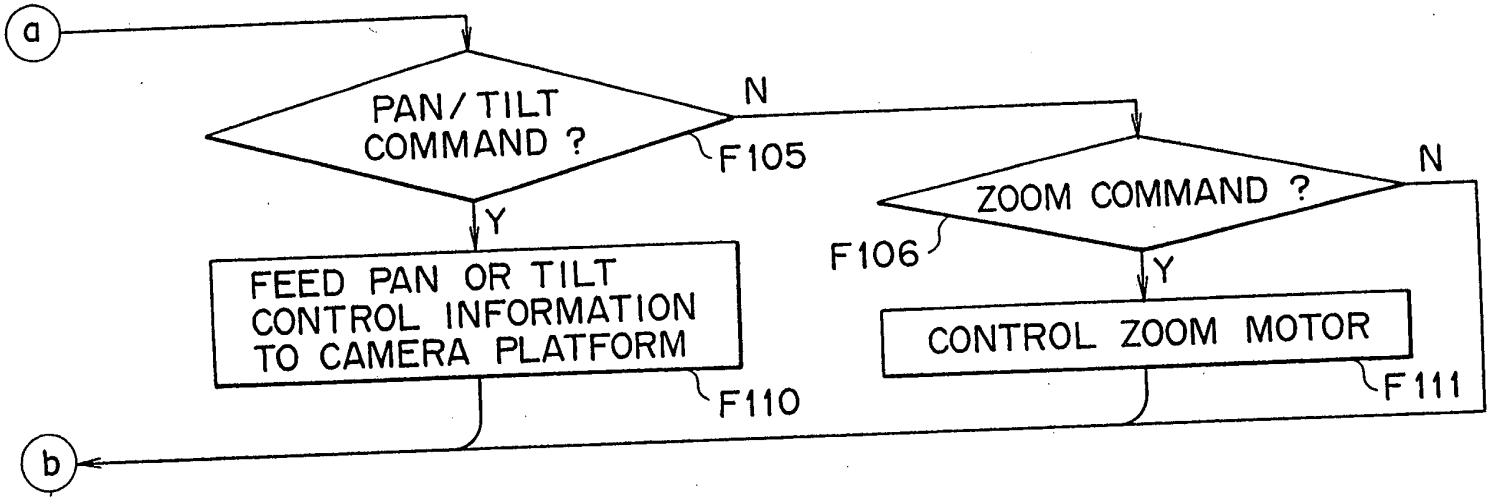


FIG. 19

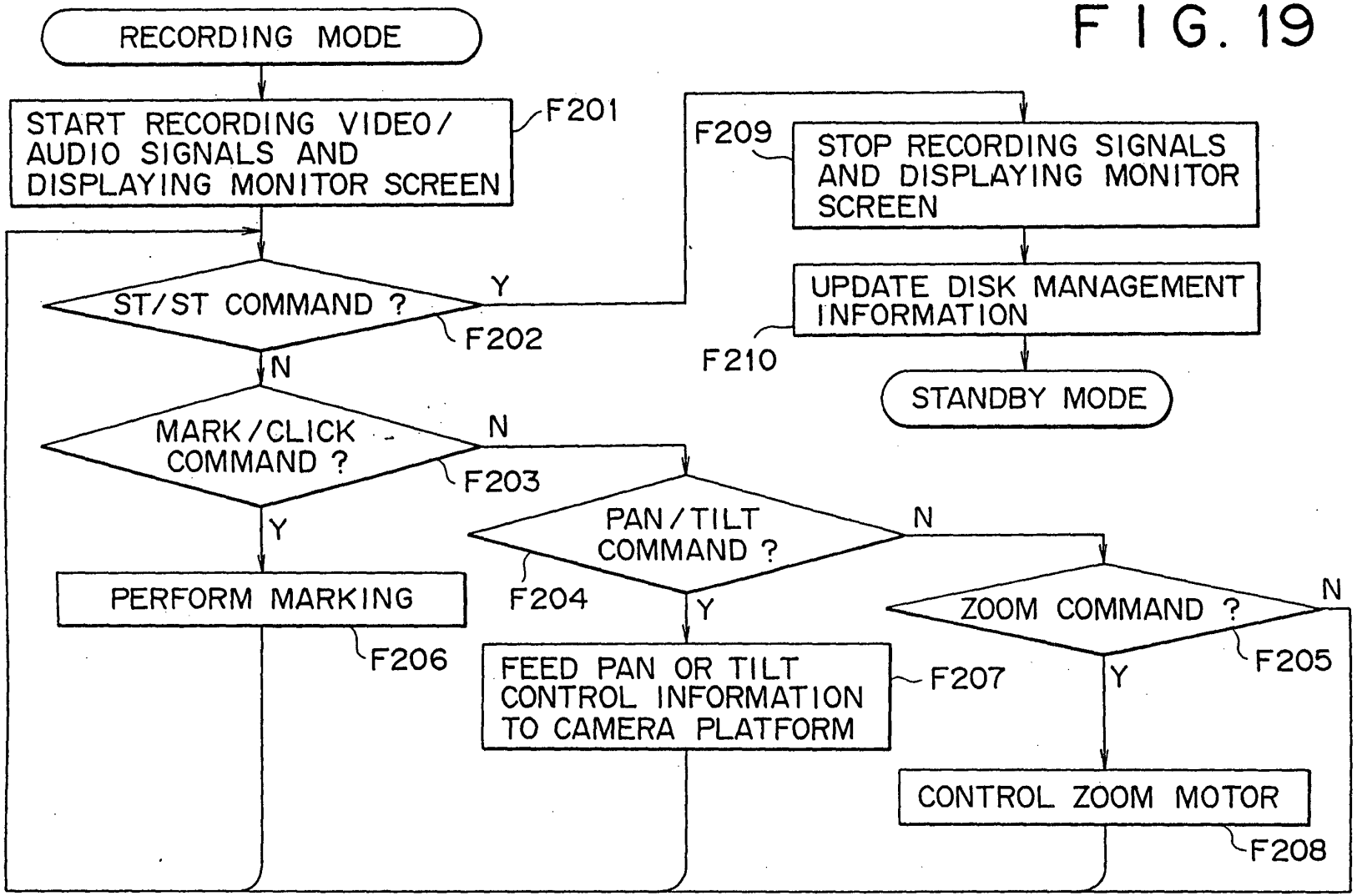

RECORDING MODE
START RECORDING VIDEO/ AUDIO SIGNALS AND DISPLAYING MONITOR SCREEN
F201
ST/ST COMMAND ?
Y
F202
N
MARK/CLICK COMMAND ?
N
F203
Y
PERFORM MARKING
F206
PAN/TILT COMMAND ?
N
F204
Y
FEED PAN OR TILT CONTROL INFORMATION TO CAMERA PLATFORM
F207
ZOOM COMMAND ?
N
F205
Y
CONTROL ZOOM MOTOR
F208
F209
STOP RECORDING SIGNALS AND DISPLAYING MONITOR SCREEN
UPDATE DISK MANAGEMENT INFORMATION
F210
STANDBY MODE

FIG. 20

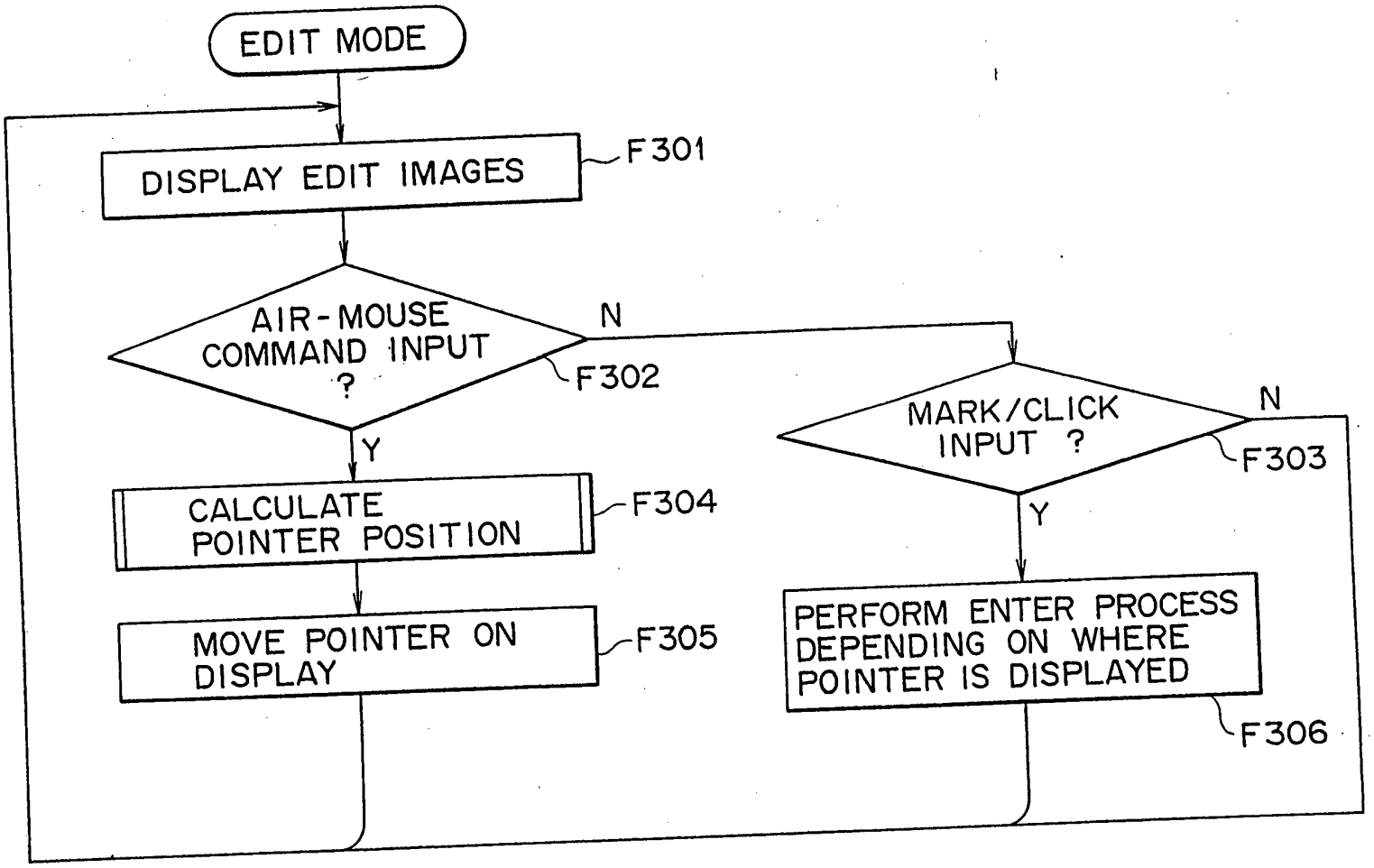

EDIT MODE
DISPLAY EDIT IMAGES
F301
AIR-MOUSE COMMAND INPUT ?
F302
N
Y
MARK/CLICK INPUT ?
F303
N
Y
CALCULATE POINTER POSITION
F304
MOVE POINTER ON DISPLAY
F305
PERFORM ENTER PROCESS DEPENDING ON WHERE POINTER IS DISPLAYED
F306

FIG. 21

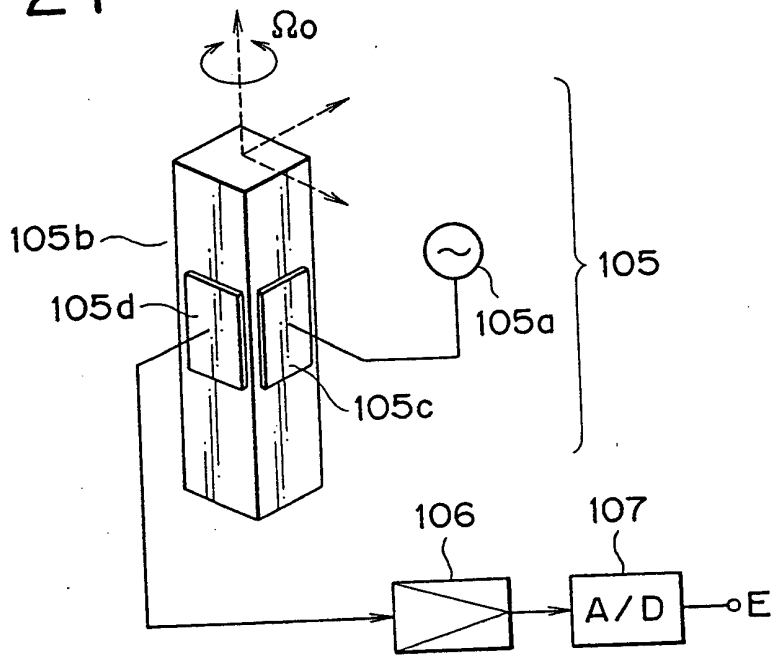

Ωo
105b
105d
105a
105
105c
106
107
A/D
E

FIG. 22

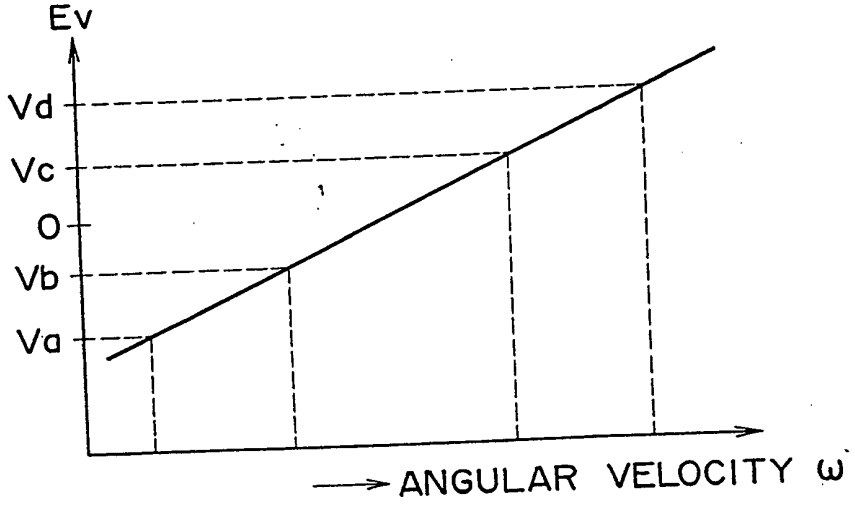

Ev
Vd
Vc
O
Vb
Va
ANGULAR VELOCITY ω

FIG. 23

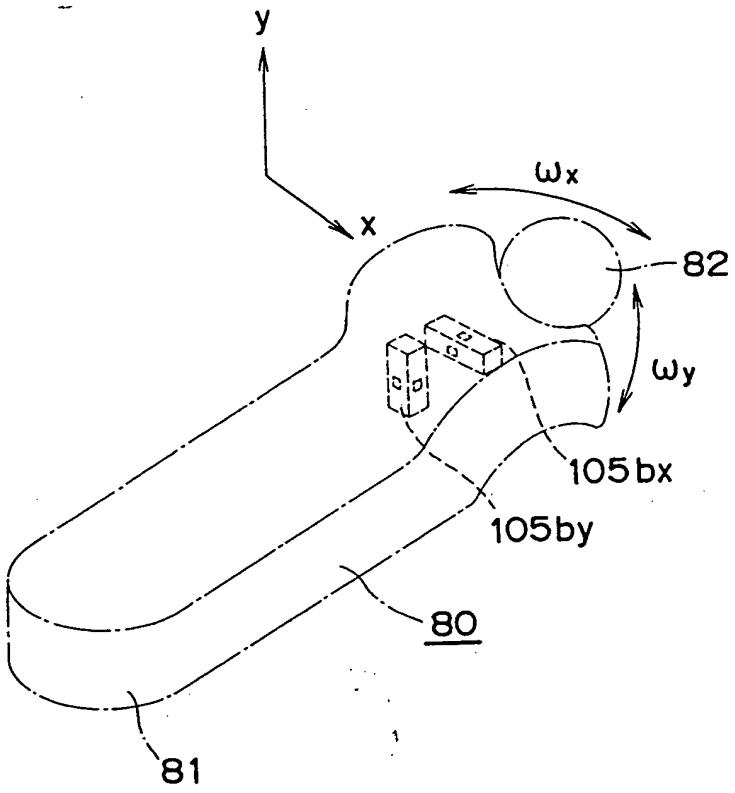


FIG. 24

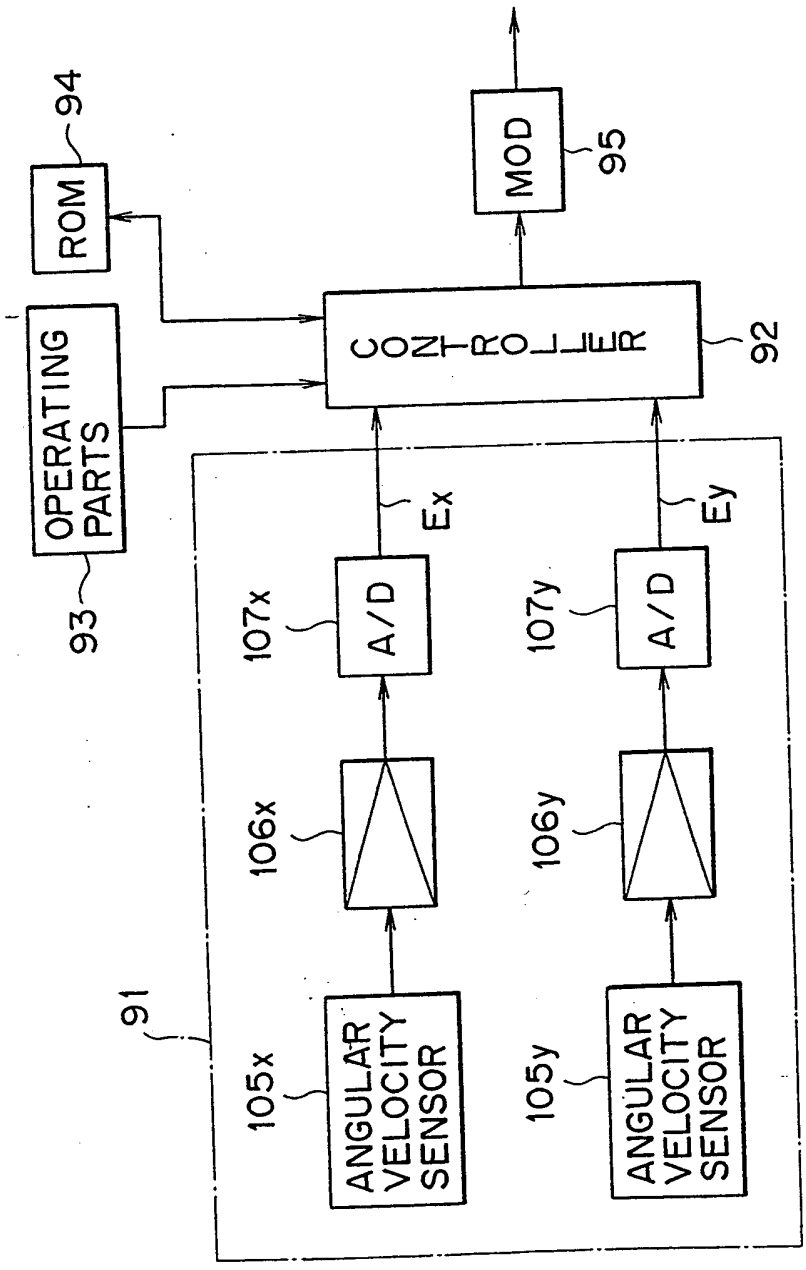

ROM
94
MOD
95
OPERATING PARTS
93
CONTROLLER
92
Ex
Ey
107x
A/D
107y
A/D
106x
106y
91
105x
ANGULAR VELOCITY SENSOR
105y
ANGULAR VELOCITY SENSOR
88

FIG. 25

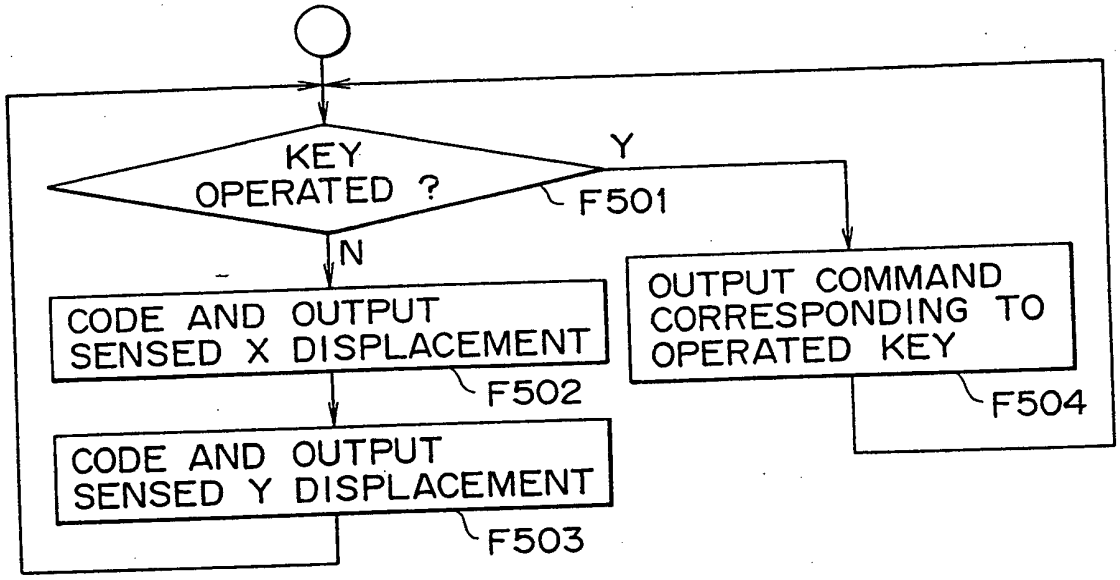

KEY OPERATED ?
Y
F501
N
CODE AND OUTPUT SENSED X DISPLACEMENT
F502
CODE AND OUTPUT SENSED Y DISPLACEMENT
F503
OUTPUT COMMAND CORRESPONDING TO OPERATED KEY
F504

FIG. 26

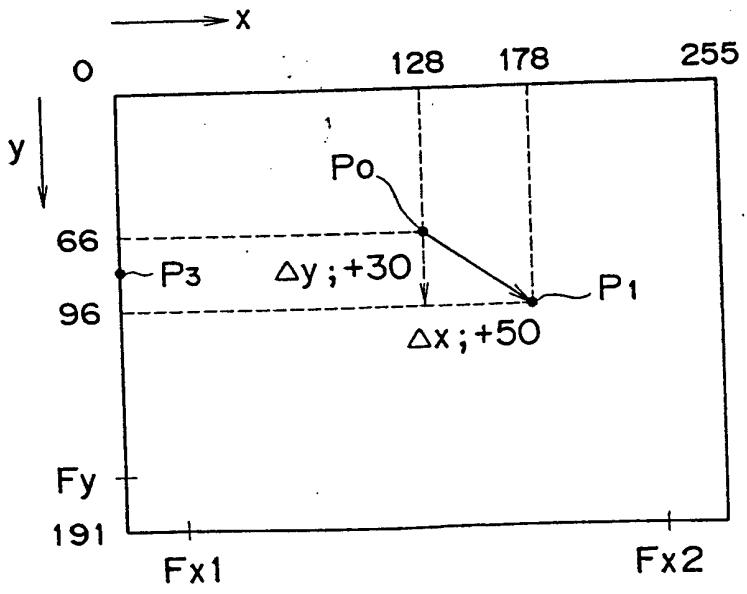

x
0
128
178
255
y
Po
66
P3
Δy ; +30
P1
96
Δx ; +50
Fy
191
Fx1
Fx2

FIG. 27

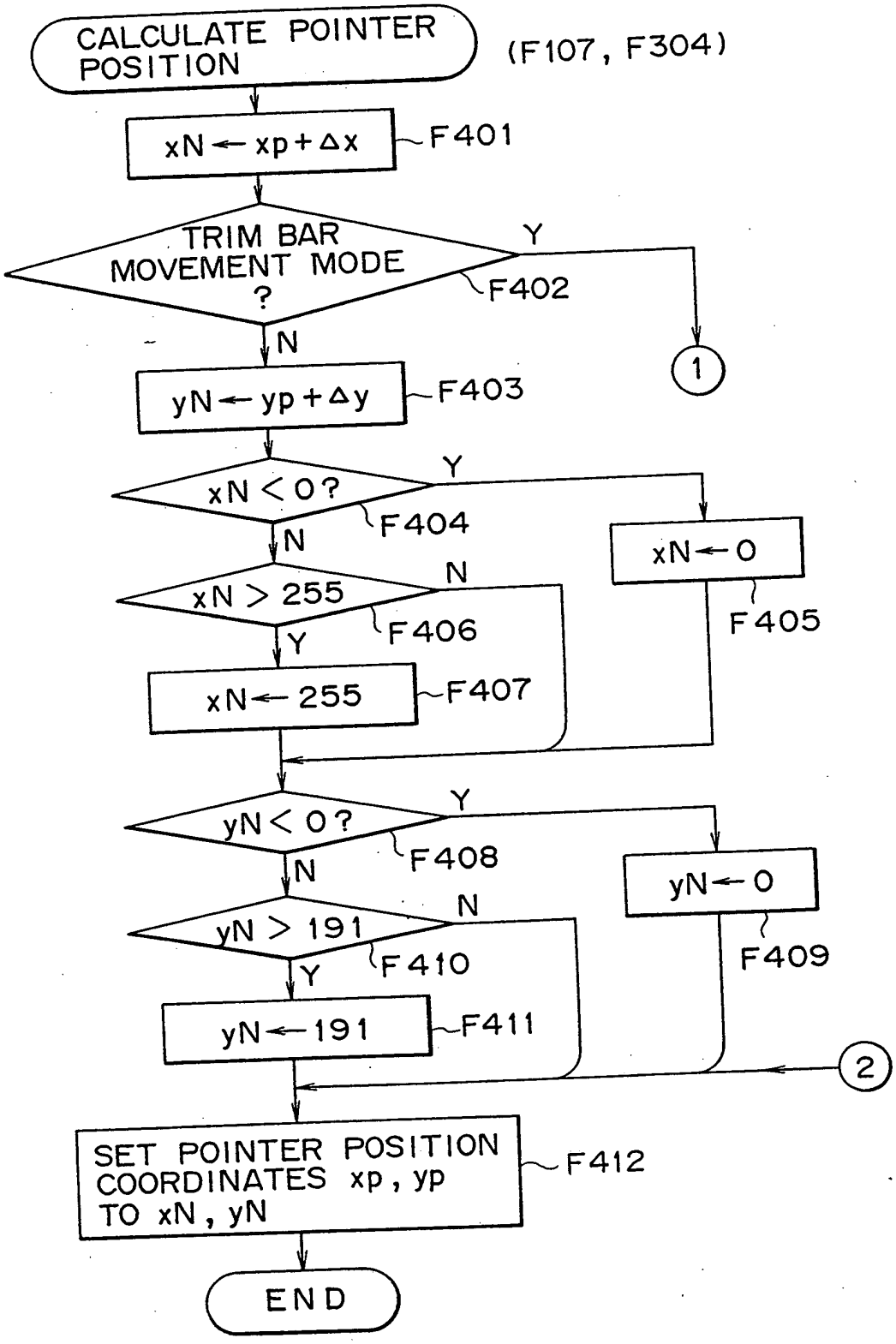

CALCULATE POINTER POSITION
(F107, F304)
xN ← xp + Δx
F401
TRIM BAR MOVEMENT MODE ?
F402
Y
N
1
yN ← yp + Δy
F403
xN < 0?
F404
Y
N
xN ← 0
F405
xN > 255
F406
N
Y
xN ← 255
F407
yN < 0?
F408
Y
N
yN ← 0
F409
yN > 191
F410
N
Y
yN ← 191
F411
2
SET POINTER POSITION COORDINATES xp, yp TO xN, yN
F412
END

FIG. 28

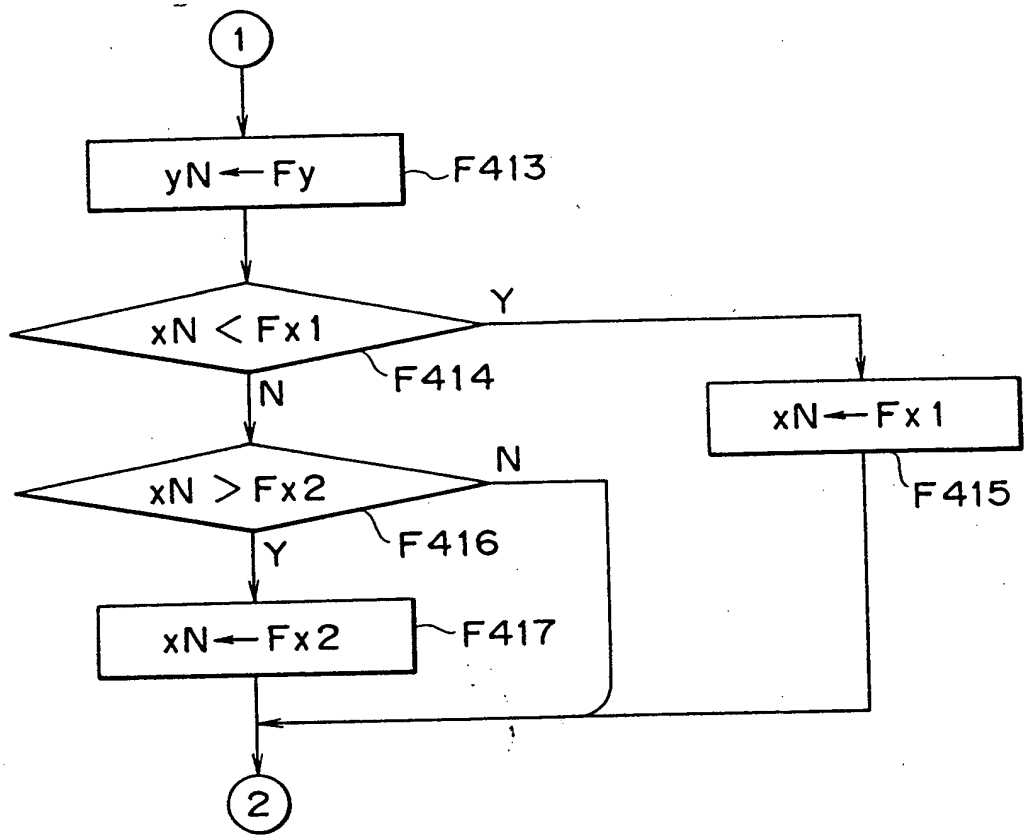

1
yN←Fy
F413
xN < Fx1
Y
F414
N
xN←Fx1
F415
xN > Fx2
N
F416
Y
xN←Fx2
F417
2

FIG. 29

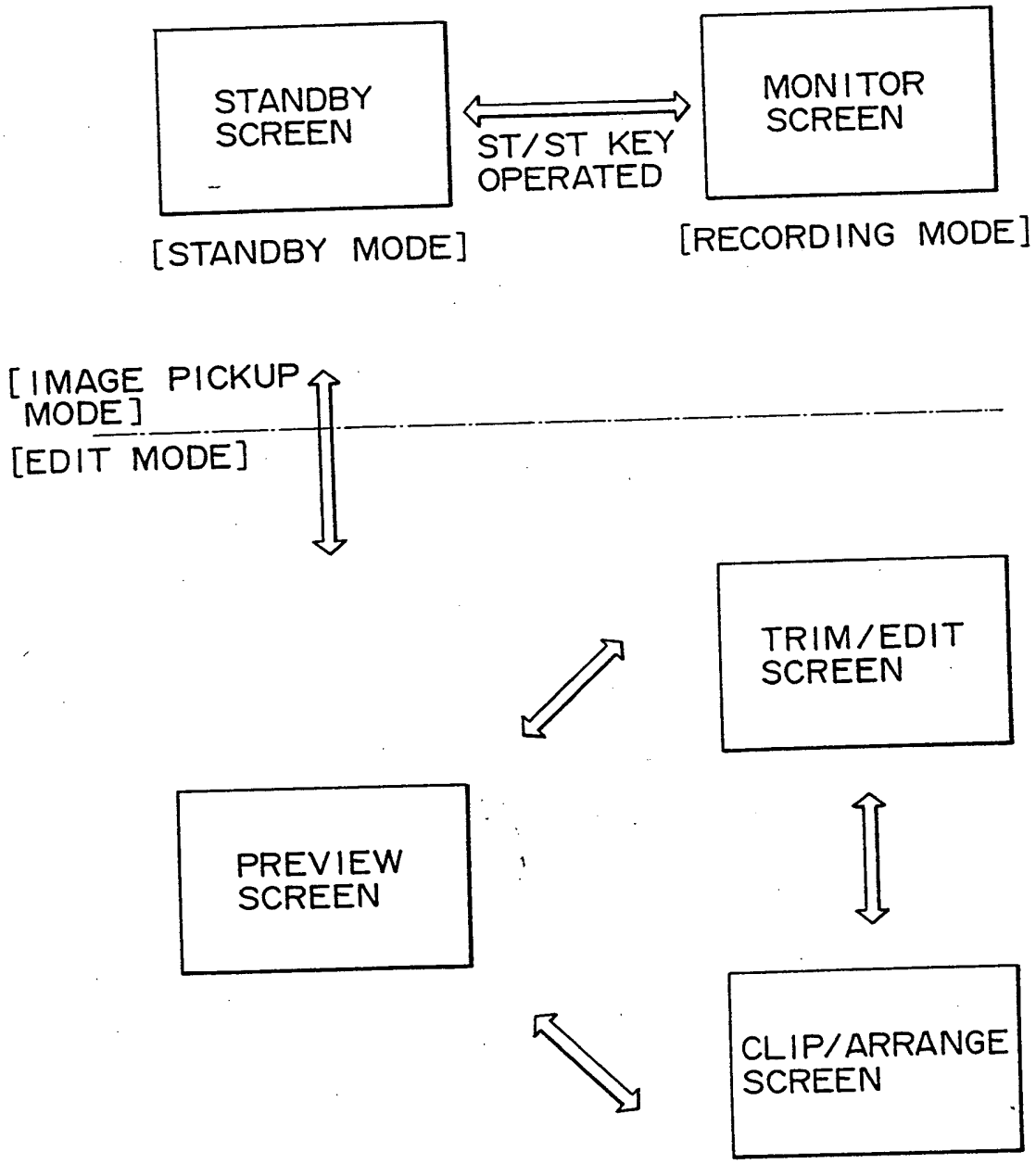

STANDBY SCREEN
ST/ST KEY OPERATED
MONITOR SCREEN
[STANDBY MODE]
[RECORDING MODE]
[IMAGE PICKUP MODE]
[EDIT MODE]
TRIM/EDIT SCREEN
PREVIEW SCREEN
CLIP/ARRANGE SCREEN

FIG. 30

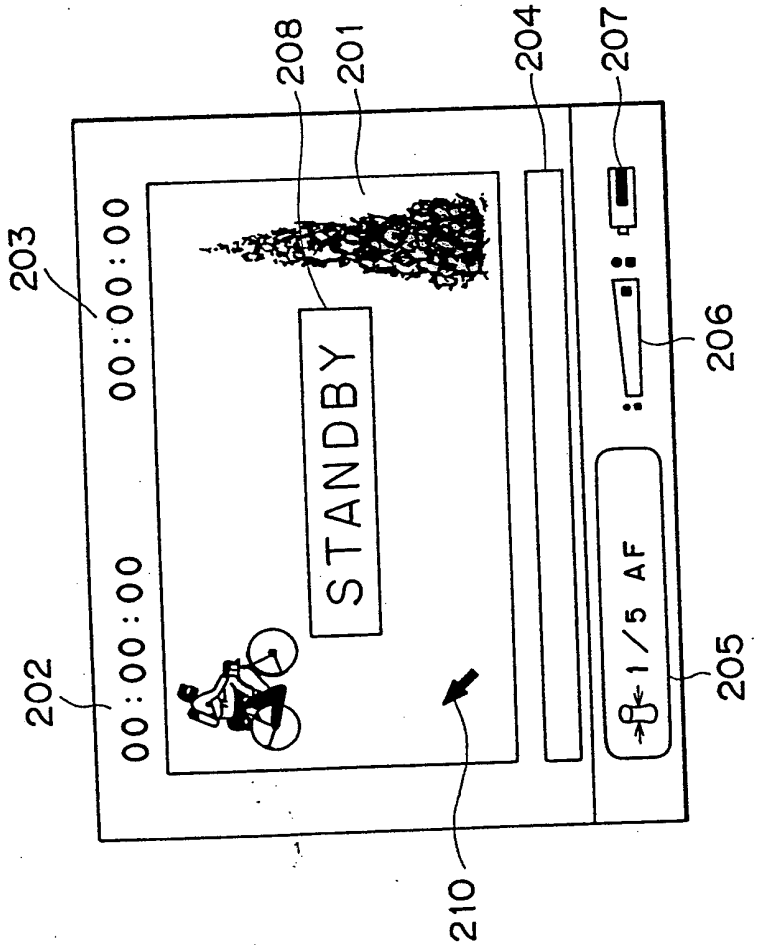

208
201
204
207
203
00:00:00
206
STANDBY
202
00:00:00
1/5 AF
205
210

FIG. 31

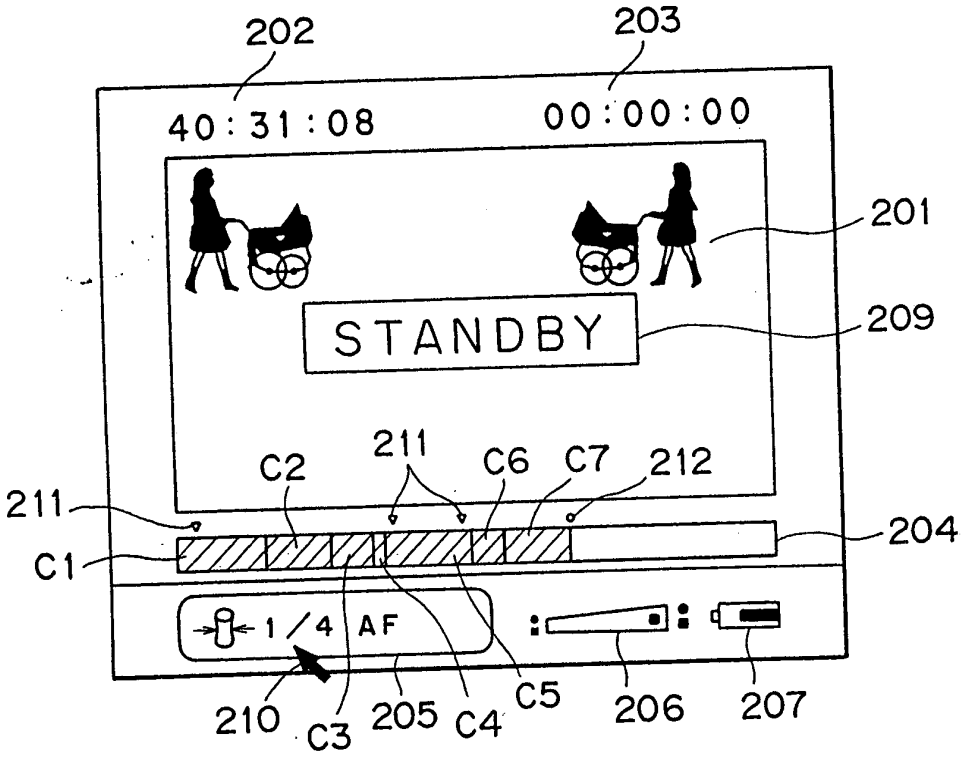

202
203
40:31:08
00:00:00
201
STANDBY
209
211
C2
211
C6
C7
212
211
204
C1
1/4 AF
210
C3
205
C4
C5
206
207

FIG. 32

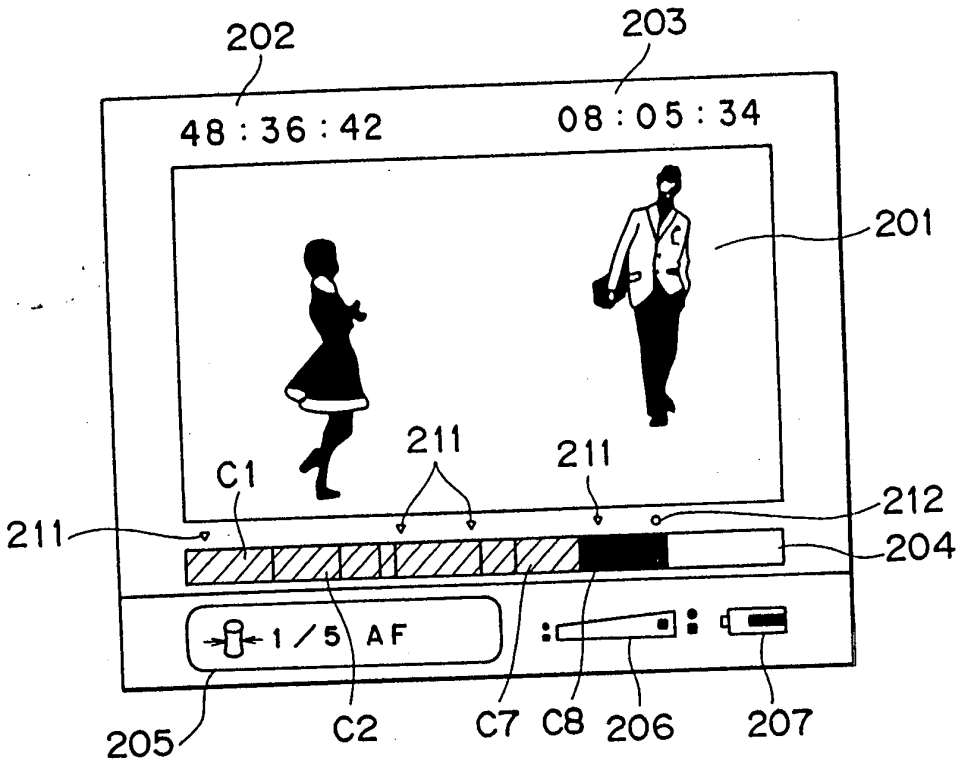

202
203
48 : 36 : 42
08 : 05 : 34
201
211
211
C1
211
212
204
1/5 AF
205
C2
C7
C8
206
207

FIG. 33

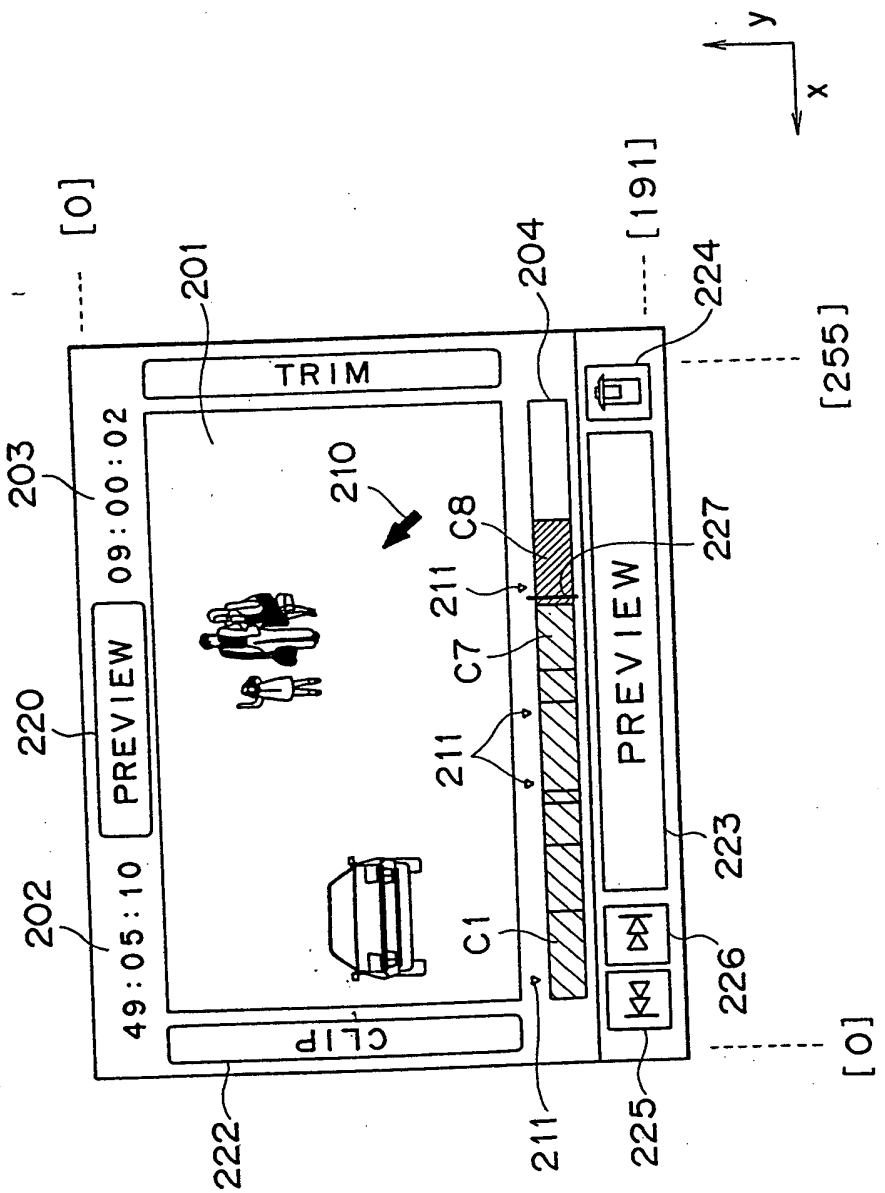

y
x
[0]
[191]
[255]
[0]
201
204
224
TRIM
203
09:00:02
210
C8
227
211
C7
220
PREVIEW
211
PREVIEW
223
202
49:05:10
C1
226
CLIP
222
211
225

FIG. 34

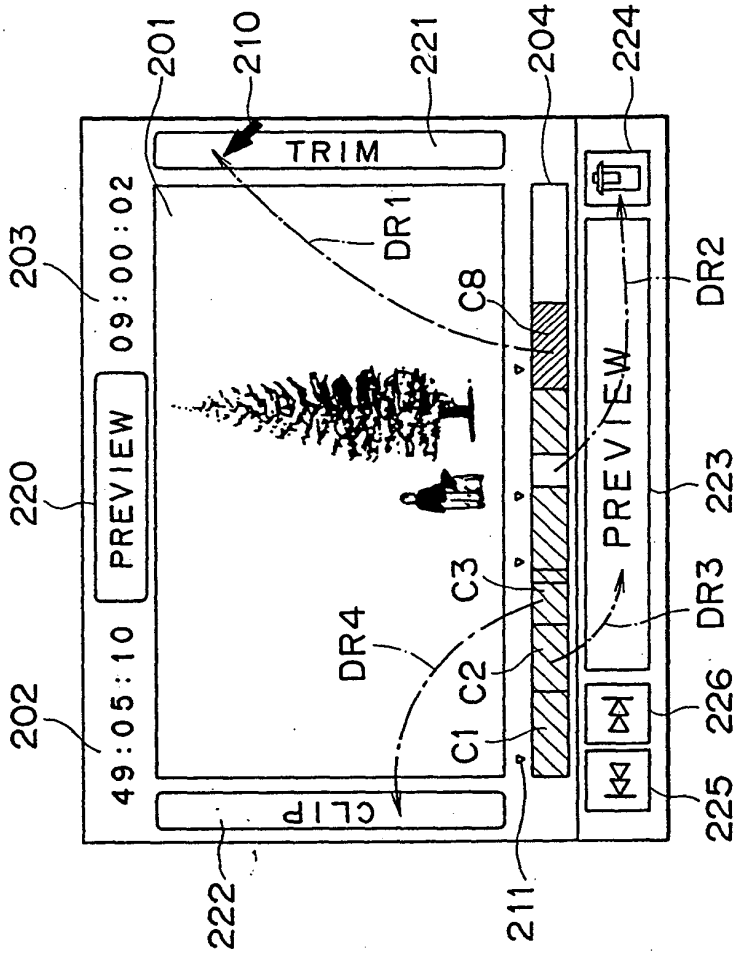

201
210
221
204
224
TRIM
203
09:00:02
DR1
C8
DR2
220
PREVIEW
PREVIEW
223
C3
DR3
DR4
C2
202
49:05:10
C1
226
CLIP
225
222
211

FIG. 35

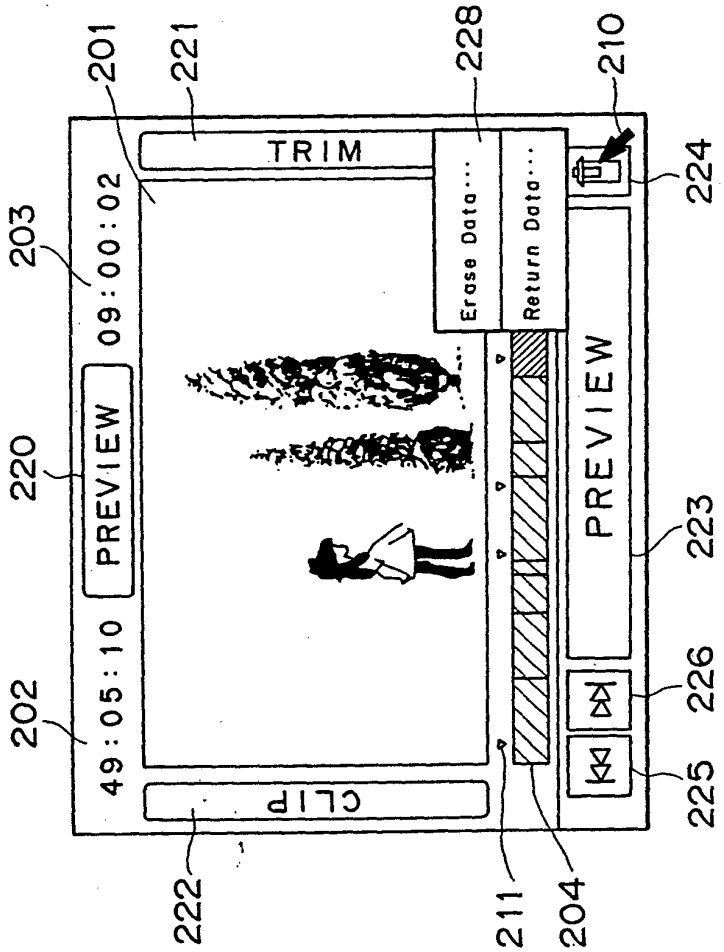

TRIM
Erase Data···
Return Data···
09:00:02
PREVIEW
49:05:10
CLIP
PREVIEW
201
221
228
210
224
203
220
223
226
225
202
222
211
204

FIG. 36

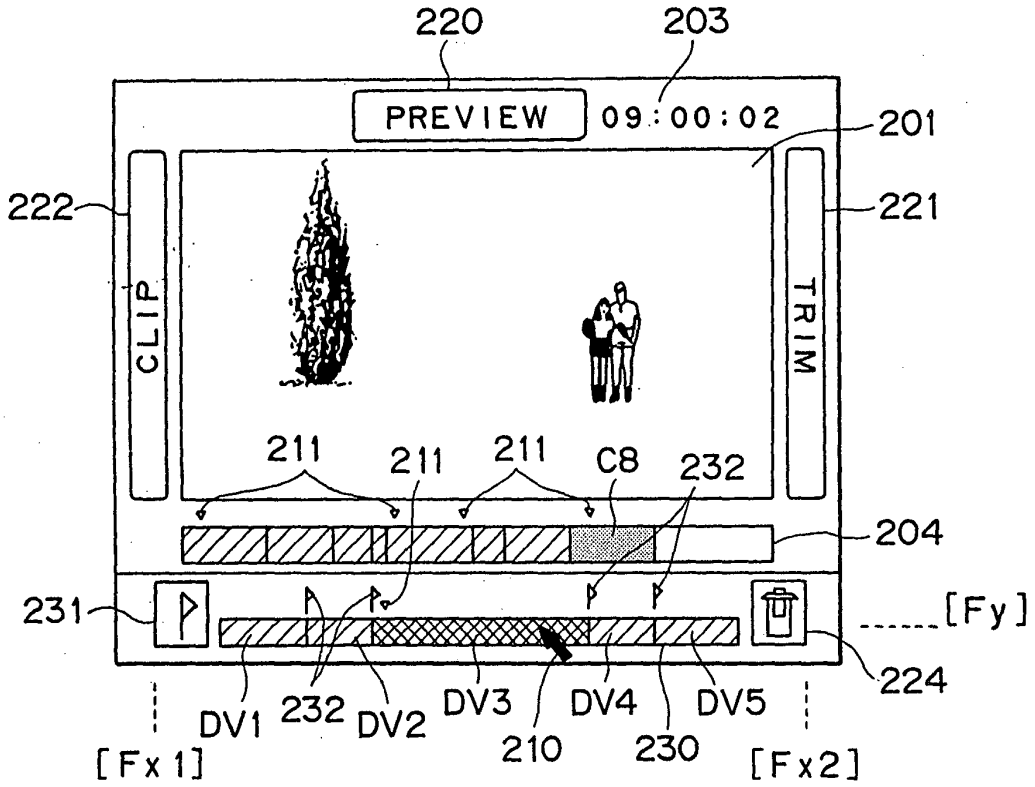

220
203
PREVIEW
09:00:02
201
222
221
CLIP
TRIM
211
211
211
C8
232
204
231
[Fy]
224
DV1
232
DV2
DV3
DV4
DV5
210
230
[Fx1]
[Fx2]

FIG. 37

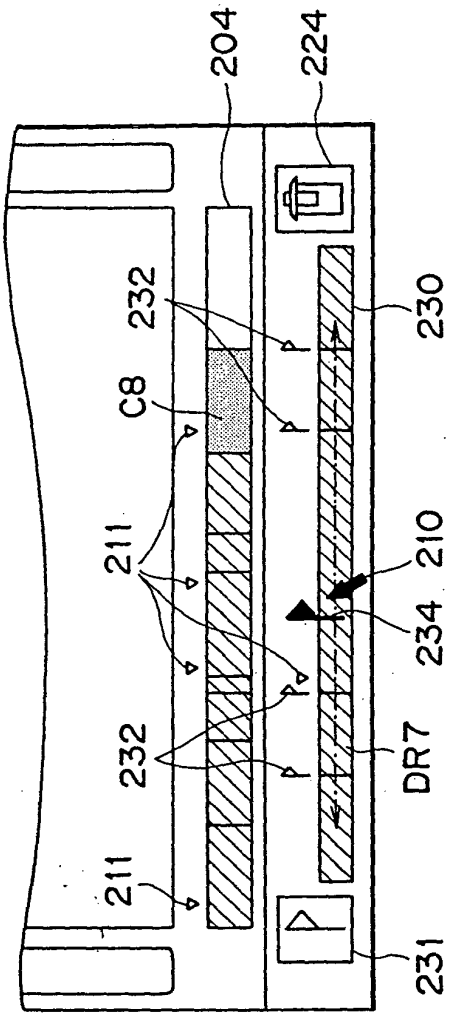


FIG. 38

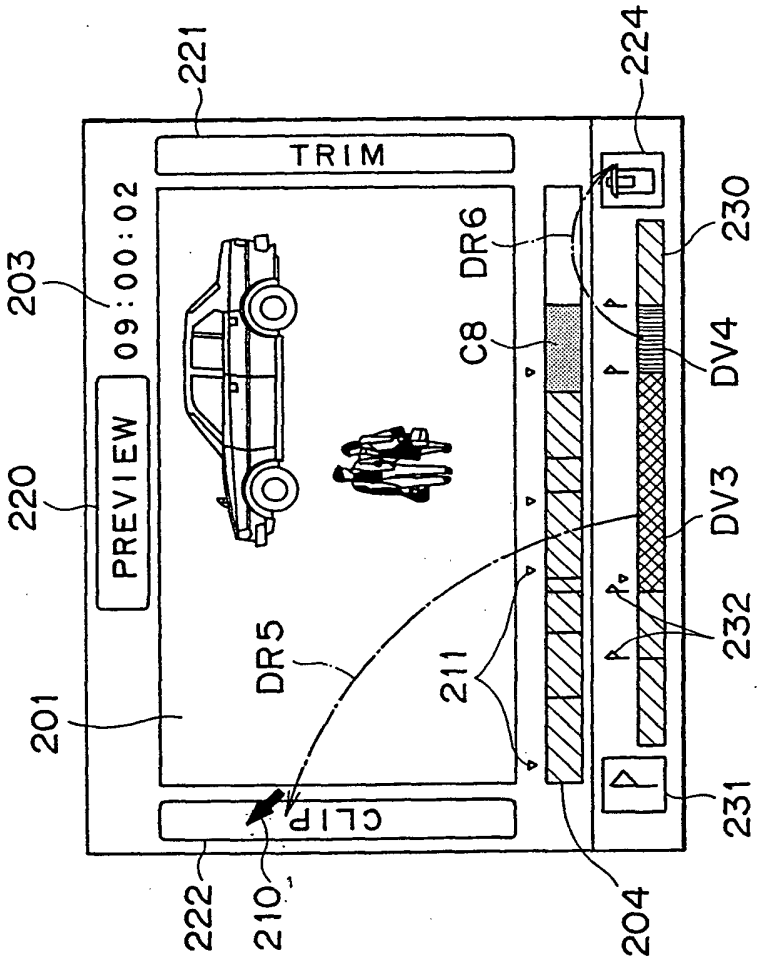

221
224
TRIM
203
09:00:02
DR6
230
C8
DV4
220
PREVIEW
DV3
DR5
211
232
201
CLIP
231
222
210
204

FIG. 39

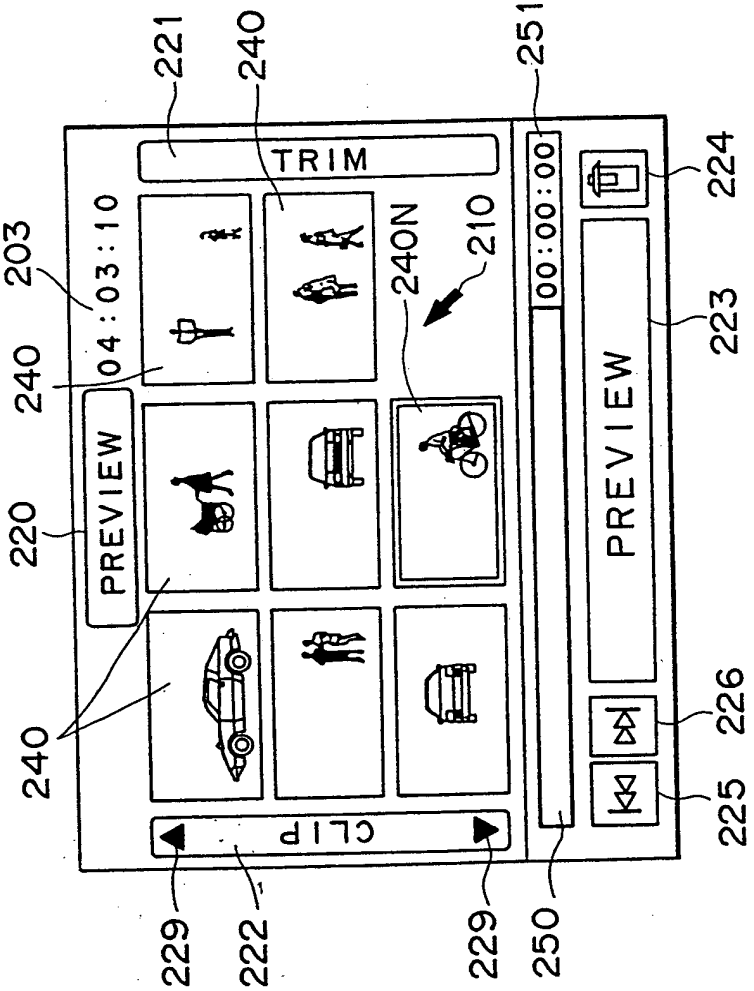

TRIM
PREVIEW
04:03:10
00:00:00
PREVIEW
CLIP
221
240
251
224
203
240N
210
223
240
220
226
240
225
229
222
229
250

FIG. 40

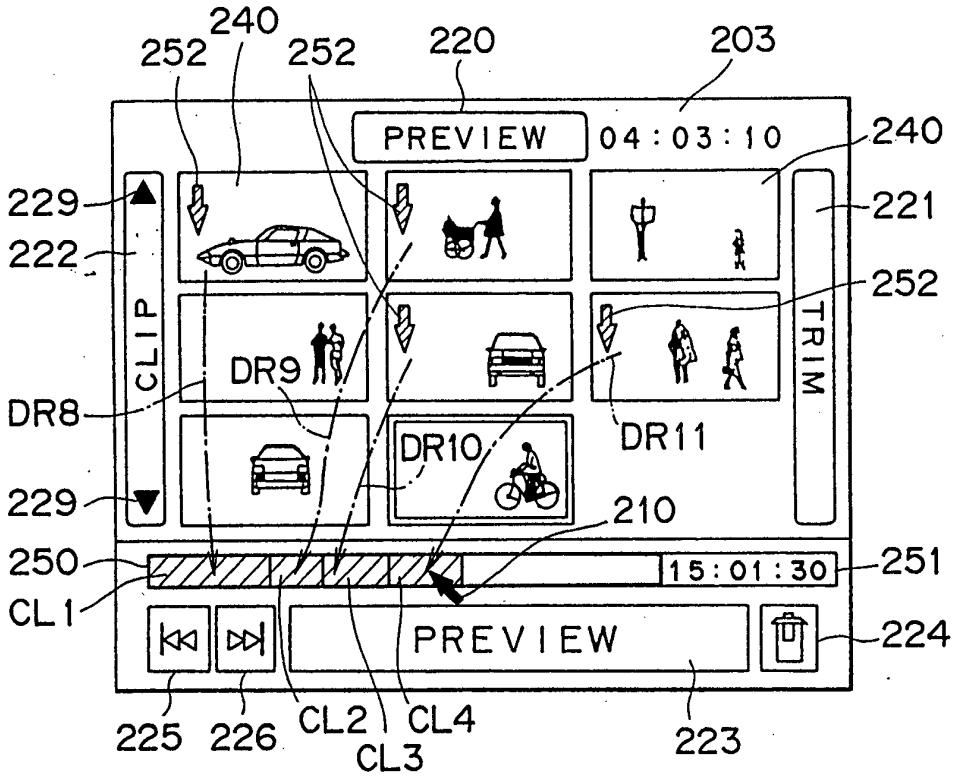

252
240
252
220
203
PREVIEW
04:03:10
240
229
221
222
CLIP
252
TRIM
DR9
DR8
DR11
DR10
229
210
250
15:01:30
251
CL1
PREVIEW
224
225
226
CL2
CL3
CL4
223

FIG. 41

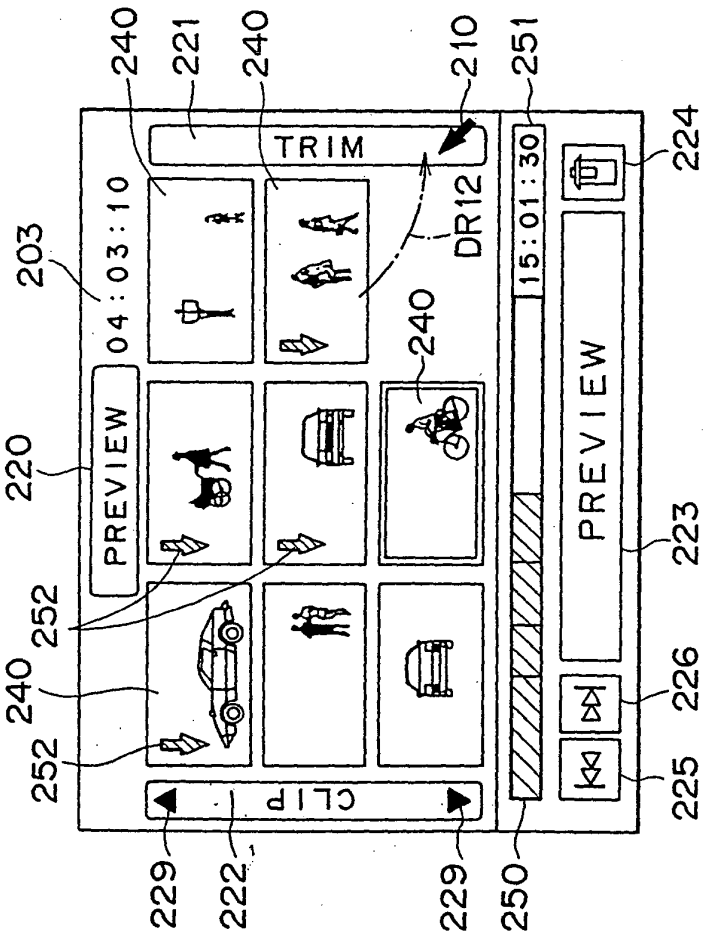

TRIM
PREVIEW
04:03:10
15:01:30
PREVIEW
CLIP
DR12
203
210
220
221
222
223
224
225
226
229
229
240
240
240
240
250
251
252
252

FIG. 42

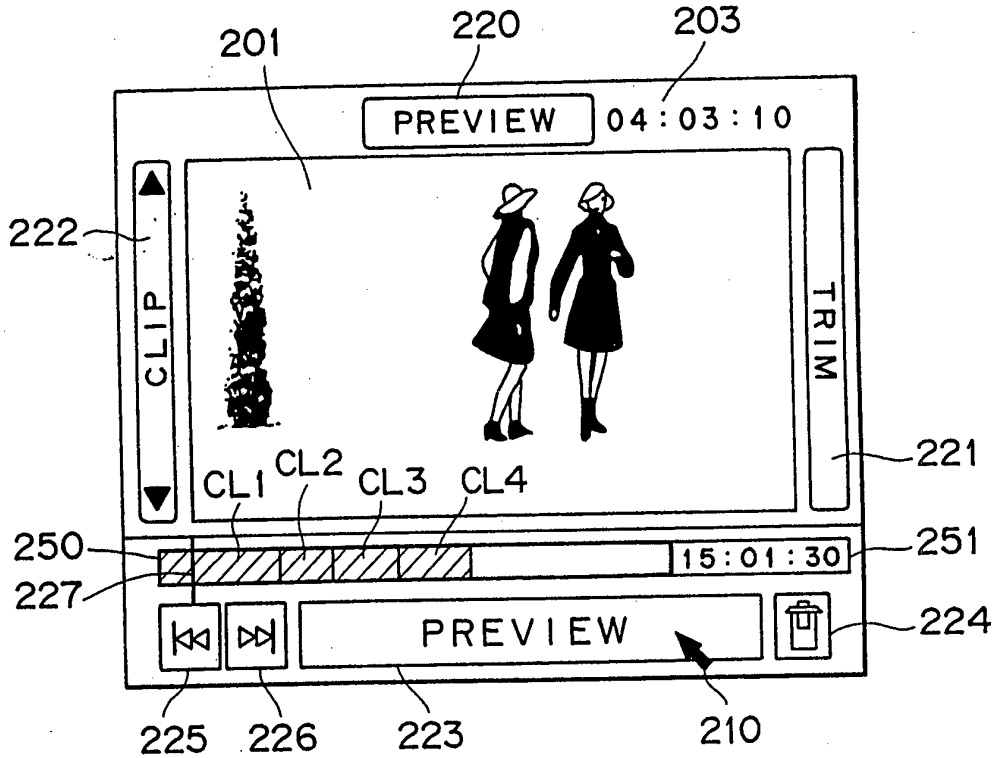
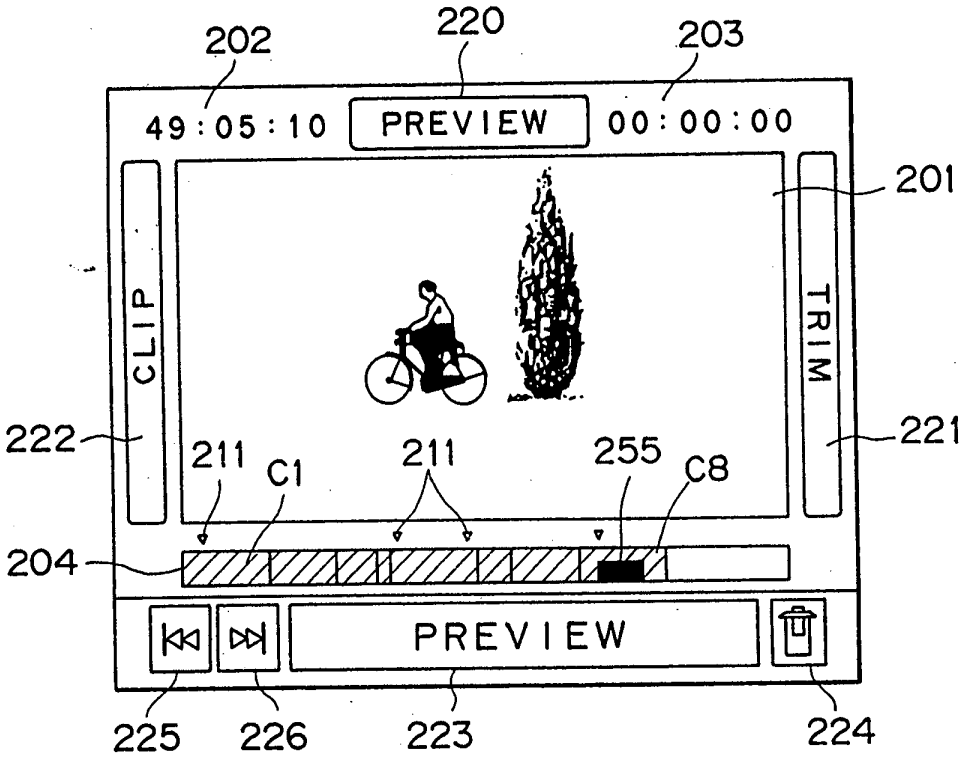

201
220
203
PREVIEW
04 : 03 : 10
222
CLIP
TRIM
221
CL1
CL2
CL3
CL4
250
251
15 : 01 : 30
227
PREVIEW
224
225
226
223
210

FIG. 43


202
220
203
49:05:10
PREVIEW
00:00:00
201
CLIP
TRIM
222
211
C1
211
255
C8
221
204
PREVIEW
225
226
223
224